NACOmatic

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Kindl	Le-DX	Index;	by A	ptID		Use	"Menu",	then	"Goto	Page"
02C	=>	30	HYR	: =>	42					
11Y	=>	32	ISW	i =>	80					
30W	=>	59	JVI	=>	43					
3CU	=>	31	LNI	=>	47					
40D	=>	73	LNR	=>	48					
44C	=>	29	LSE	=>	45					
49C	=>	31	LUM	[=>	52					
57C	=>	36	MDZ	=>	51					
58C	=>	37	MFI	=>	51					
60C	=>	37	MKE	=>	53					
61C	=>	38	MRJ	=>	56					
62C	=>	39	MSN	· =>	49					
63C	=>	39	MTW	i =>	50					
64C	=>	39	MWC	! =>	55					
68C	=>	42	OCC	=>	59					
73C	=>	47	OEC	=>	60					
79C	=>	57	OLG	=>	70					
82C	=>	58	OSH	· =>	61					
87Y	=>	49	OVS	=>	29					
88C	=>	61	PBH	· =>	62					
91C	=>	64	PCZ	=>	77					
92C	=>	64	PDC	! =>	63					
93C	=>	67	PKF	' =>	62					
94C	=>	67	PVE	3 =>	63					
96C	=>	67	RAC	! =>	65					
99C	=>	72	RCX	=>	46					
AHH	=>	26	RHI		66					
AIG	=>	26	RNH		59					
ARV	=>	56	RPD		66					
ASX	=>	28	RRI		52					
ATW	=>	27	RYV		76					
AUW	=>	77	RZN		70					
BCK	=>	29	SBM		68					
BDJ	=>	29	SSÇ		69					
BUU	=>	31	STE		71					
CLI	=>	33	SUE		72					
CMY	=>	71	SUW		72					
CWA	=>	57	TKV		74					
DAF	=>	57	UBE		34					
DLL	=>	28	UES		76					
EAU	=>	37	UNU		44					
EFT	=>	56	VIÇ		58					
EGV	=>	36	VOK	=>	75					
ENW	=>	44								
ETB	=>	78 68								
EZS	=>	68								
FLD	=>	38								
GRB	=>	41								
GTG	=>	40								
HBW	=>	42								
HXF	=>	41				 				

GENERAL INFORMATION

This Airport/Facility Directory is a Civil Flight Information Publication published and distributed every eight weeks by the National Aeronautical Charting Office, FAA, Department of Transportation, Silver Spring, Maryland 20910. It is designed for use with Aeronautical Charts covering the conterminous United States, Puerto Rico and the Virgin Islands.

This directory contains all open to the public airports, seaplane bases and heliports, military facilities, and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally, this directory contains communications data, navigational facilities and certain special notices and procedures.

Military data contained within this publication is provided by the National Geospatial-Intelligence Agency and is intended to provide reference data for military and/or joint civil/military airports. Not all military data contained in this publication is applicable to civil users.

CORRECTIONS, COMMENTS, AND/OR PROCUREMENT

CRITICAL information such as equipment malfunction, abnormal field conditions, hazards to flight, etc., should be reported as soon as possible to the nearest FAA facility, either in person or by reverse charge telephone call.

FOR AIRPORT SUPPLEMENT REVISIONS FORM VISIT WEB SITE: http://nfdc.faa.gov/portal/airportchanges.do

FAA, Aeronautical Information Services, ATO-R, Rm. 626

800 Independence Ave., SW

Washington, DC 20591

Telephone 1-866-295-8236 Fax 202-267-5322

Email 9-ATOR-HO-AIS-AIRPORTCHANGES@FAA.GOV

NOTICE: Changes must be received by the Aeronautical Information Services as soon as possible but not later than the "cut-off" dates listed below to assure publication on the desired effective date.

	Airport Information	Airspace Information*
Effective Date	Cut-off date	Cut-off date
17 Dec 09	4 Nov 09	15 Oct 09
11 Feb 10	30 Dec 09	10 Dec 09
8 Apr 10	24 Feb 10	4 Feb 10
3 Jun 10	21 Apr 10	1 Apr 10
29 Jul 10	16 Jun 10	27 May 10
23 Sep 10	11 Aug 10	22 Jul 10

^{*}Including changes to preferred routes and graphic depictions on charts.

FOR CHARTING ERRORS CONTACT:

ı

FAA, National Aeronautical Charting Office, ATO-W

SSMC-4 Sta. #2335

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Silver Spring, MD 20910-3281

Telephone 1-800-626-3677

Email 9-AMC-Aerochart@faa.gov

Frequently asked questions (FAQs) are answered on our web site at www.naco.faa.gov. See the FAQs prior to contact via toll free number.

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Online at www.naco.faa.gov

Email 9-AMC-Chartsales@faa.gov

Telephone 1-800-638-8972

Fax 301-436-6829

or any authorized FAA Chart Agent

New or Changed Information—To alert users of new information or changes to information from the previous issue, a vertical line will be portrayed in the outside margin and extending the full length of the new and/or revised data. This will not apply to the front cover or the airport/facility directory listing.

This Airport/Facility Directory comprises part of the following sections of the United States Aeronautical Information Publication (AIP): GEN, ENR and AD.

TABLE OF CONTENTS

General Information	Inside Front Cover	
Abbreviations	2	
Directory Legend	4	
Airport/Facility Directory	•	
Illinois	22	
Indiana	81	
Michigan	129	
Ohio	213	
Wisconsin	276	
City/Military Airport Cross Reference	330	
Seaplane Landing Areas	331	
Special Notices	333	
·		- 1
Regulatory Notices	340	
FAA and National Weather Service		
Telephone Numbers	341	
Key to Aviation Weather Reports	342	
Air Traffic Facilities Telephone Numbers	344	
Air Route Traffic Control Centers	346	
Flight Service Station Communication Frequencies	348	
Flight Standards District Offices	351	
Routes/Waypoints		
Low Altitude Preferred Routes	352	
Low Altitude Directional Routes	355	
High Altitude Preferred Routes	356	
High Altitude Directional Routes	374	
Q-Routes	377	
RNAV Routing Pitch and Catch Points	380	
VFR Waypoints	391	
VOR Receiver Check	399	
Parachute Jumping Areas	403	
Aeronautical Chart Bulletins	405	
Supplemental Communication Reference	418	1
Airport Diagrams	424	•
National Weather Service (NWS) Upper Air Observing Stations	504	
Enroute Flight Advisory Service (EFAS)	Inside Back Cover	

ABBREVIATIONS

The following abbreviations/acronyms are those commonly used within this Directory. Other abbreviations/acronyms may be found in the Legend and are not duplicated below. The abbreviations presented are intended to represent grammatical variations of the basic form. (Example—''req'' may mean ''request'', ''requesting'', ''requested'', or ''requests'').

AAF	Army Air Field	byd	beyond
AB	Airbase	C	Commercial Circuit (Telephone)
abv	above	CGAF	Coast Guard Air Facility
ACC	Air Combat Command; Area Control	CGAS	Coast Guard Air Station
	Center	CIV	Civil
acft	aircraft	clsd	closed
ADCC	Air Defense Control Center	comd	command
AER	approach end rwy	CONUS	Continental United States
AFB	Air Force Base	CSTMS	Customs
AFHP	Air Force Heliport	ctc	contact
afld	airfield	ctl	control
AFOD	US Army Flight Operations Detachment	dalgt	daylight
AFRC	Armed Forces Reserve Center/Air Force	Dec	December
	Reserve Command	DIAP	DoD Instrument Approach Procedure
AFSS	Automated Flight Service Station	DoD	Department of Defense
AG	Agriculture	DSN	Defense Switching Network (Telephone)
A-GEAR	Arresting Gear	dsplcd	displaced
AGL	above ground level	durn	duration
AHP	Army heliport	eff	effective
ALS	Approach Light System	emerg	emergency
alt	altitude	EOR	End of Runway
AMC	Air Mobility Command	ETA	Estimated Time of Arrival
ANGS	Air National Guard Station	ETD	Estimated Time of Departure
apch	approach	exc	except
Apr	April	extd	extend
APU	Auxiliary Power Unit	FB0	fixed-base operator
ARB	Air Reserve Base	Feb	February
arpt	airport	fld	field
ARS	Air Reserve Station	FLIP	Flight Information Publication
AS	Air Station	flt	flight
ASDE-X	Airport Surface Detection Equipment—	flw	follow
	Model X	Fri	Friday
ASU	Aircraft Starting Unit	FSS	Flight Service Station
ATC	Air Traffic Control	GA	glide angle
Aug	August	GCA	Ground Controlled Approach
AUW	All Up Weight (gross weight)	GS	glide slope
avbl	available	haz	hazard
bcn	beacon	HQ	Headquarters
blo	below		

CONTINUED ON NEXT PAGE

CONTINUED FROM PRECEDING PAGE

hr hour non precision instrument ΙΔΡ Instrument Approach Procedure NS ABTMT Noise Abatement ICAC International Civil Aviation Organization NSTD nonstandard IFR Instrument Flight Rules ntc notice ILS Instrument Landing System obsn observation IM Inner Marker Oct October IMG Immigration OI F Outlying Field

incr increase onr operate, operator, operational

indet indefinite ons operations intensity OTS out of service ints invof in the vicinity of ovrn overrun

personnel and equipment working IMC Instrument Meteorological Conditions PAFW

lan nat pattern Jet Aircraft Starting Unit IASI p-line power line

JOAP Joint Oil Analysis Program **PMSV** Pilot-to-Metro Service IOSAC Joint Operational Support Airlift Center PΩI Petrol, Oils and Lubricants IRB Joint Reserve Base PPR prior permission required Jul July PRM Precision Runway Monitoring PTD

Jun June Pilot to Dispatcher

Κt Knots RAMCC Regional Air Movement Control Center

LAA Local Airport Advisory rea request LAHSO Land and Hold Short Operations rgt tfc right traffic RON Remain Overnight lhs nounds ldg landing rar require lighted rstd lgtd restricted

RSRS løts lights reduced same runway separation

LMM Compass locator at Middle Marker ILS rwv runway LOC Localizer Sat Saturday

LOM Compass locator at Outer Marker ILS SFLE Strategic Expeditionary Landing Field

limited Sen Itd September MACC Military Area Control Center SFA Single Frequency Approach

March efe Mar surface

SFRA MCAF Marine Corps Air Facility Special Flight Rules Area

SOAP MCALE Marine Corps Auxiliary Landing Field Spectrometric Oil Analysis Program

SOF Supervisor of Flying MCAS Marine Corps Air Station Marine Corps Base SPR MCB Seaplane Base

SP med medium sunrise SS METRO Pilot-to-Metro voice call sunset Mil military std standard min minute Sur Sunday MLS Microwave Landing System SVC service MM Middle Marker of ILS tfc traffic Mon Monday thld threshold Maintenance Period Thu Thursday tkf

MP MSI mean sea level take-off MSAW minimum safe altitude warning tmnrv temporary NAAS Naval Auxiliary Air Station tran transient NADC Naval Air Development Center Tue Tuesday NADER Naval Air Depot twr tower Naval Air Engineering Center NAEC twv taxiway

NAFS Naval Air Engineering Station UC Under Construction Naval Air Facility USA United States Army NAF NALCO Naval Air Logistics Control Office USAF United States Air Force USCG NALO Navy Air Logistics Office United States Coast Guard NALE Naval Auxiliary Landing Field USN United States Navy

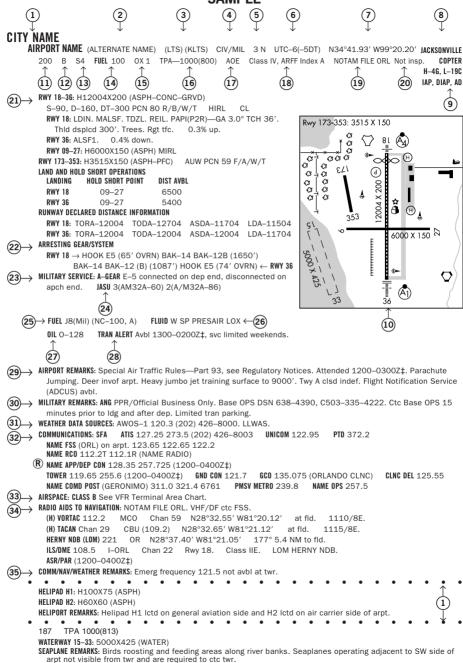
NAS Naval Air Station Defense Switching Network (telephone,

NAWC Naval Air Warfare Center formerly AUTOVON) NAWS Naval Air Weapons Station VFR Visual Flight Rules VIP night Very Important Person ngt

NOLF Naval Outlying Field VMC Visual Meteorological Conditions

Nov November Wed Wednesday wx weather

SAMPI F



All bearings and radials are magnetic unless otherwise specified.
All mileages are nautical unless otherwise noted.
All times are Coordinated Universal Time (UTC) except as noted.
All elevations are in feet above/below Mean Sea Level (MSL) unless otherwise noted.
The horizontal reference datum of this publication is North American Datum of 1983 (NAD83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

10 SKETC	H LEGEND
runways/landing areas	radio aids to navigation
Hard Surfaced	VORTAC
Metal Surface	VOR/DME NDB
Sod, Gravel, etc	TACAN TO NDB/DME
Light Plane,	MISCELLANEOUS AERONAUTICAL FEATURES
Closed	Airport Beacon
Helicopter Landings Area	Wind Cone
Displaced Threshold 0	Tetrahedron
Taxiway, Apron and Stopways	
ANGCELLANICOUG BACE AND CHITLIDAL	APPROACH LIGHTING SYSTEMS
MISCELLANEOUS BASE AND CULTURAL FEATURES	A dot "•" portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting
Buildings	system e.g. (A) Negative symbology, e.g., (A) w indicates Pilot Controlled Lighting (PCL).
Power Lines	Runway Centerline Lighting
Fence	Approach Lighting System ALSF-2 I
Towers	Approach Lighting System ALSF-1
Tanks	Short Approach Lighting System SALS/SALSF. Simplified Short Approach Lighting System (SSALR) with RAII
Oil Well	System (SSALR) with RAIL
Smoke Stack	and SSALF)
5812 Obstruction	As System (MALSR) and RAIL
Controlling Obstruction	Lighting System (ODALS)
G & G.	(‡) Air Force Overrun
Trees	Visual Approach Slope Indicator with Standard Threshold Clearance provided
Populated Places	Pulsating Visual Approach Slope Indicator (PVASI)
Cuts and Fills Fill HITTITI	Visual Approach Slope Indicator with a threshold crossing height to accomodate long bodied or jumbo aircraft
Cliffs and Depressions	Tri-color Visual Approach Slope Indicator (TRCV)
Ditch	(V3) Approach Path Alignment Panel (APAP)
Hill	P Precision Approach Path Indicator (PAPI)

LEGEND

This directory is a listing of data on record with the FAA on all open to the public airports, military facilities and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally this listing contains data for associated terminal control facilities, air route traffic control centers, and radio aids to navigation within the conterminous United States, Puerto Rico and the Virgin Islands. Joint civil/military and civil airports are listed alphabetically by state, associated city and airport name and cross-referenced by airport name. Military facilities are listed alphabetically by state and official airport name and cross-referenced by associated city name. Navaids, flight service stations and remote communication outlets that are associated with an airport, but with a different name, are listed alphabetically under their own name, as well as under the airport with which they are associated.

The listing of an open to the public airport in this directory merely indicates the airport operator's willingness to accommodate transient aircraft, and does not represent that the facility conforms with any Federal or local standards, or that it has been approved for use on the part of the general public. Military and private use facilities published in this directory are open to civil pilots only in an emergency or with prior permission. See Special Notice Section, Civil Use of Military Fields.

The information on obstructions is taken from reports submitted to the FAA. Obstruction data has not been verified in all cases. Pilots are cautioned that objects not indicated in this tabulation (or on the airports sketches and/or charts) may exist which can create a hazard to flight operation. Detailed specifics concerning services and facilities tabulated within this directory are contained in the Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

The legend items that follow explain in detail the contents of this Directory and are keyed to the circled numbers on the sample on the preceding pages.

(1) CITY/AIRPORT NAME

Civil and joint civil/military airports and facilities in this directory are listed alphabetically by state and associated city. Where the city name is different from the airport name the city name will appear on the line above the airport name. Airports with the same associated city name will be listed alphabetically by airport name and will be separated by a dashed rule line. A solid rule line will separate all others. FAA approved helipads and seaplane landing areas associated with a land airport will be separated by a dotted line. Military airports are listed alphabetically by state and official airport name.

(2) ALTERNATE NAME

Alternate names, if any, will be shown in parentheses.

(3) LOCATION IDENTIFIER

The location identifier is a three or four character FAA code followed by a four-character ICAO code assigned to airports. ICAO codes will only be published at joint civil/military, and military facilities. If two different military codes are assigned, both codes will be shown with the primary operating agency's code listed first. These identifiers are used by ATC in lieu of the airport name in flight plans, flight strips and other written records and computer operations. Zeros will appear with a slash to differentiate them from the letter "O".

(4) OPERATING AGENCY

Airports within this directory are classified into two categories, Military/Federal Government and Civil airports open to the general public, plus selected private use airports. The operating agency is shown for military, private use and joint civil/military airports. The operating agency is shown by an abbreviation as listed below. When an organization is a tenant, the abbreviation is enclosed in parenthesis. No classification indicates the airport is open to the general public with no

military tenant. Α US Army MC Marine Corps AFRC Air Force Reserve Command N Navv US Air Force Naval Air Facility ΔF NAF

Air National Guard Naval Air Station AR US Army Reserve NASA National Air and Space Administration Р ARNG US Army National Guard US Civil Airport Wherein Permit Covers CG US Coast Guard Use by Transient Military Aircraft CIV/MIL Joint Use Civil/Military PVT Private Use Only (Closed to the Public)

NAS

DND Department of National Defense Canada

(5) AIRPORT LOCATION

ANG

Airport location is expressed as distance and direction from the center of the associated city in nautical miles and cardinal points, e.g., 4 NE.

(6) TIME CONVERSION

Hours of operation of all facilities are expressed in Coordinated Universal Time (UTC) and shown as "Z" time. The directory indicates the number of hours to be subtracted from UTC to obtain local standard time and local daylight saving time UTC-5(-4DT). The symbol ‡ indicates that during periods of Daylight Saving Time effective hours will be one hour earlier than shown. In those areas where daylight saving time is not observed the (-4DT) and ‡ will not be shown. Daylight saving time is in effect from 0200 local time the second Sunday in March to 0200 local time the first Sunday in November. Canada and all U.S. Conterminous States observe daylight saving time except Arizona and Puerto Rico, and the Virgin Islands. If the state observes daylight saving time and the operating times are other than daylight saving times, the operating hours will include the dates, times and no ‡ symbol will be shown, i.e., April 15-Aug 31 0630-1700Z, Sep 1-Apr 14 0600-1700Z.

7 GEOGRAPHIC POSITION OF AIRPORT—AIRPORT REFERENCE POINT (ARP)

Positions are shown as hemisphere, degrees, minutes and hundredths of a minute and represent the approximate geometric center of all usable runway surfaces.

8 CHARTS

Charts refer to the Sectional Chart and Low and High Altitude Enroute Chart and panel on which the airport or facility is located. Helicopter Chart locations will be indicated as COPTER. IFR Gulf of Mexico West and IFR Gulf of Mexico Central will be depicted as GOMW and GOMC.

(9) INSTRUMENT APPROACH PROCEDURES, AIRPORT DIAGRAMS

IAP indicates an airport for which a prescribed (Public Use) FAA Instrument Approach Procedure has been published. DIAP indicates an airport for which a prescribed DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures. See the Special Notice Section of this directory, Civil Use of Military Fields and the Aeronautical Information Manual 5–4–5 Instrument Approach Procedure Charts for additional information. AD indicates an airport for which an airport diagram has been published. Airport diagrams are located in the back of each A/FD volume alphabetically by associated city and airport name.

10 AIRPORT SKETCH

The airport sketch, when provided, depicts the airport and related topographical information as seen from the air and should be used in conjunction with the text. It is intended as a guide for pilots in VFR conditions. Symbology that is not self-explanatory will be reflected in the sketch legend. The airport sketch will be oriented with True North at the top. Airport sketches will be added incrementally.

(11) ELEVATION

The highest point of an airport's usable runways measured in feet from mean sea level. When elevation is sea level it will be indicated as "00". When elevation is below sea level a minus "-" sign will precede the figure.

(12) ROTATING LIGHT BEACON

B indicates rotating beacon is available. Rotating beacons operate sunset to sunrise unless otherwise indicated in the AIRPORT REMARKS or MILITARY REMARKS segment of the airport entry.

(13) SERVICING—CIVIL

S1:	Minor airframe repairs.	S5:	Major airframe repairs.
S2:	Minor airframe and minor powerplant repairs.	S6:	Minor airframe and major powerplant repairs.
S3:	Major airframe and minor powerplant repairs.	S7:	Major powerplant repairs.
S4:	Major airframe and major powerplant repairs.	S8:	Minor powerplant repairs.
\sim			

(14) FUEL

CODE	FUEL	CODE	FUEL
80	Grade 80 gasoline (Red)	B+	Jet B, Wide-cut, turbine fuel with FS-II*, FP**
100	Grade 100 gasoline (Green)		minus 50° C.
100LL	100LL gasoline (low lead) (Blue)	J4 (JP4)	(JP-4 military specification) FP** minus
115	Grade 115 gasoline (115/145 military		58° C.
	specification) (Purple)	J5 (JP5)	(JP-5 military specification) Kerosene with
Α	Jet A, Kerosene, without FS-II*, FP** minus		FS-11, FP** minus 46°C.
	40° C.	J8 (JP8)	(JP-8 military specification) Jet A-1, Kerosene
A+	Jet A, Kerosene, with FS-II*, FP** minus		with FS-II*, FP** minus 47°C.
	40°C.	J8+100	(JP-8 military specification) Jet A-1, Kerosene
A1	Jet A-1, Kerosene, without FS-II*, FP**		with FS-II*, FP** minus 47°C, with-fuel
	minus 47°C.		additive package that improves thermo
A1+	Jet A-1, Kerosene with FS-II*, FP** minus		stability characteristics of JP-8.
	47° C.	J	(Jet Fuel Type Unknown)
В	Jet B, Wide-cut, turbine fuel without FS-II*,	MOGAS	Automobile gasoline which is to be used
	FP** minus 50° C.		as aircraft fuel.

^{*(}Fuel System Icing Inhibitor)

NOTE: Certa

Certain automobile gasoline may be used in specific aircraft engines if a FAA supplemental type certificate has been obtained. Automobile gasoline, which is to be used in aircraft engines, will be identified as "MOGAS", however, the grade/type and other octane rating will not be published.

Data shown on fuel availability represents the most recent information the publisher has been able to acquire. Because of a variety of factors, the fuel listed may not always be obtainable by transient civil pilots. Confirmation of availability of fuel should be made directly with fuel suppliers at locations where refueling is planned.

15 OXYGEN—CIVIL

OX 1 High Pressure OX 3 High Pressure—Replacement Bottles
OX 2 Low Pressure OX 4 Low Pressure—Replacement Bottles

16 TRAFFIC PATTERN ALTITUDE

Traffic Pattern Altitude (TPA)—The first figure shown is TPA above mean sea level. The second figure in parentheses is TPA above airport elevation. Multiple TPA shall be shown as "TPA—See Remarks" and detailed information shall be shown in the Airport or Military Remarks Section. Traffic pattern data for USAF bases, USN facilities, and U.S. Army airports (including those on which ACC or U.S. Army is a tenant) that deviate from standard pattern altitudes shall be shown in Military Remarks.

^{**(}Freeze Point)

(17) p

AIRPORT OF ENTRY. LANDING RIGHTS. AND CUSTOMS USER FEE AIRPORTS

U.S. CUSTOMS USER FEE AIRPORT—Private Aircraft operators are frequently required to pay the costs associated with customs processing.

AOE—Airport of Entry. A customs Airport of Entry where permission from U.S. Customs is not required to land. However, at least one hour advance notice of arrival is required.

LRA—Landing Rights Airport. Application for permission to land must be submitted in advance to U.S. Customs. At least one hour advance notice of arrival is required.

NOTE: Advance notice of arrival at both an AOE and LRA airport may be included in the flight plan when filed in Canada or Mexico. Where Flight Notification Service (ADCUS) is available the airport remark will indicate this service. This notice will also be treated as an application for permission to land in the case of an LRA. Although advance notice of arrival may be relayed to Customs through Mexico, Canada, and U.S. Communications facilities by flight plan, the aircraft operator is solely responsible for ensuring that Customs receives the notification. (See Customs, Immigration and Naturalization, Public Health and Agriculture Department requirements in the International Flight Information Manual for further details.)

US Customs Air and Sea Ports, Inspectors and Agents

Northeast Sector (New England and Atlantic States—ME to MD)	407-975-1740
Southeast Sector (Atlantic States—DC, WV, VA to FL)	407-975-1780
Central Sector (Interior of the US, including Gulf states—MS, AL, LA)	407-975-1760
Southwest East Sector (OK and eastern TX)	407-975-1840
Southwest West Sector (Western TX, NM and AZ)	407-975-1820
Pacific Sector (WA, OR, CA, HI and AK)	407-975-1800

(18) CERTIFICATED AIRPORT (14 CFR PART 139)

Airports serving Department of Transportation certified carriers and certified under 14 CFR part 139 are indicated by the Class and the ARFF Index; e.g. Class I, ARFF Index A, which relates to the availability of crash, fire, rescue equipment. Class I airports can have an ARFF Index A through E, depending on the aircraft length and scheduled departures. Class II, III, and IV will always carry an Index A.

14 CFR PART 139 CERTIFICATED AIRPORTS AIRPORT CLASSIFICATIONS

Type of Air Carrier Operation	Class I	Class II	Class III	Class IV
Scheduled Air Carrier Aircraft with 31 or more passenger seats	Х			
Unscheduled Air Carrier Aircraft with 31 or more passengers seats	Х	Х		Х
Scheduled Air Carrier Aircraft with 10 to 30 passenger seats	Х	Х	Х	

14 CFR-PART 139 CERTIFICATED AIRPORTS

INDICES AND AIRCRAFT RESCUE AND FIRE FIGHTING EQUIPMENT REQUIREMENTS

Airport Index	Required No. Vehicles	Aircraft Length	Scheduled Departures	Agent + Water for Foam
А	1	<90′	≥1	500#DC or HALON 1211 or 450#DC + 100 gal H₂O
В	1 or 2	≥90′, <126′	≥5	Index A + 1500 gal H ₂ O
		≥126′, <159′	<5	
С	2 or 3	≥126′, <159′	≥5	Index A + 3000 gal H ₂ O
		≥159′, <200′	<5	
D	3	≥159′, <200′		Index A + 4000 gal H ₂ O
		>200′	<5	
E	3	≥200′	≥5	Index A + 6000 gal H ₂ O

> Greater Than; < Less Than; ≥ Equal or Greater Than; ≤ Equal or Less Than; H₂O-Water; DC-Dry Chemical.

NOTE: The listing of ARFF index does not necessarily assure coverage for non-air carrier operations or at other than prescribed times for air carrier. ARFF Index Ltd.—indicates ARFF coverage may or may not be available, for information contact airport manager prior to flight.

19 NOTAM SERVICE

All public use landing areas are provided NOTAM "D" (distant dissemination) and NOTAM "L" (local dissemination) service. Airport NOTAM file identifier is shown for individual airports, e.g. "NOTAM FILE IAD". See AIM, Basic Flight Information and

ATC Procedures for detailed description of NOTAM's. Current NOTAMs are available from Flight Service Stations at 1–800–WX–BRIEF. Real time Military NOTAMs are available using the DoD Internet NOTAM Distribution System (DINS) www.notams.jcs.mil.

20 FAA INSPECTION

All airports not inspected by FAA will be identified by the note: Not insp. This indicates that the airport information has been provided by the owner or operator of the field.

21 RUNWAY DATA

Runway information is shown on two lines. That information common to the entire runway is shown on the first line while information concerning the runway ends is shown on the second or following line. Runway direction, surface, length, width, weight bearing capacity, lighting, and slope, when available are shown for each runway. Multiple runways are shown with the longest runway first. Direction, length, width, and lighting are shown for sea-lanes. The full dimensions of helipads are shown, e.g., 50X150. Runway data that requires clarification will be placed in the remarks section.

RUNWAY DESIGNATION

Runways are normally numbered in relation to their magnetic orientation rounded off to the nearest 10 degrees. Parallel runways can be designated L (left)/R (right)/C (center). Runways may be designated as Ultralight or assault strips. Assault | strips are shown by magnetic bearing.

RUNWAY DIMENSIONS

Runway length and width are shown in feet. Length shown is runway end to end including displaced thresholds, but excluding those areas designed as overruns.

RUNWAY SURFACE AND LENGTH

Runway lengths prefixed by the letter "H" indicate that the runways are hard surfaced (concrete, asphalt, or part asphalt–concrete). If the runway length is not prefixed, the surface is sod, clay, etc. The runway surface composition is indicated in parentheses after runway length as follows:

(AFSC)—Aggregate friction seal coat	(GRVL)—Gravel, or cinders	(PSP)—Pierced steel plank
(ASPH)—Asphalt	(MATS)—Pierced steel planking,	(RFSC)—Rubberized friction seal coat
(CONC)—Concrete	landing mats, membranes	(TURF)—Turf
(DIRT)—Dirt	(PEM)—Part concrete, part asphalt	(TRTD)—Treated
(GRVD)—Grooved	(PFC)—Porous friction courses	(WC)—Wire combed

RIINWAY WEIGHT BEARING CAPACITY

Runway strength data shown in this publication is derived from available information and is a realistic estimate of capability at an average level of activity. It is not intended as a maximum allowable weight or as an operating limitation. Many airport pavements are capable of supporting limited operations with gross weights in excess of the published figures. Permissible operating weights, insofar as runway strengths are concerned, are a matter of agreement between the owner and user. When desiring to operate into any airport at weights in excess of those published in the publication, users should contact the airport management for permission. Runway strength figures are shown in thousand of pounds, with the last three figures being omitted. Add 000 to figure following S, D, 2S, 2T, AUW, SWL, etc., for gross weight capacity. A blank space following the letter designator is used to indicate the runway can sustain aircraft with this type landing gear, although definite runway weight bearing capacity figures are not available, e.g., S, D. Applicable codes for typical gear configurations with S=Single, D=Dual, T=Triple and Q=Quadruple:

CURRENT	NEW	NEW DESCRIPTION
S	S	Single wheel type landing gear (DC3), (C47), (F15), etc.
D	D	Dual wheel type landing gear (BE1900), (B737), (A319), etc.
T	D	Dual wheel type landing gear (P3, C9).
ST	28	Two single wheels in tandem type landing gear (C130).
TRT	2T	Two triple wheels in tandem type landing gear (C17), etc.
DT	2D	Two dual wheels in tandem type landing gear (B707), etc.
TT	2D	Two dual wheels in tandem type landing gear (B757,
		KC135).
SBTT	2D/D1	Two dual wheels in tandem/dual wheel body gear type
		landing gear (KC10).
None	2D/2D1	Two dual wheels in tandem/two dual wheels in tandem body
		gear type landing gear (A340–600).
DDT	2D/2D2	Two dual wheels in tandem/two dual wheels in double
		tandem body gear type landing gear (B747, E4).
TTT	3D	Three dual wheels in tandem type landing gear (B777), etc.
TT	D2	Dual wheel gear two struts per side main gear type landing
		gear (B52).
TDT	C5	Complex dual wheel and quadruple wheel combination
		landing gear (C5).

AUW—All up weight. Maximum weight bearing capacity for any aircraft irrespective of landing gear configuration.

SWL—Single Wheel Loading. (This includes information submitted in terms of Equivalent Single Wheel Loading (ESWL) and Single Isolated Wheel Loading).

PSI-Pounds per square inch. PSI is the actual figure expressing maximum pounds per square inch runway will support, e.g., (SWL 000/PSI 535).

Omission of weight bearing capacity indicates information unknown.

The ACN/PCN System is the ICAO standard method of reporting pavement strength for pavements with bearing strengths greater than 12.500 pounds. The Payement Classification Number (PCN) is established by an engineering assessment of the runway. The PCN is for use in conjunction with an Aircraft Classification Number (ACN). Consult the Aircraft Flight Manual, Flight Information Handbook, or other appropriate source for ACN tables or charts. Currently, ACN data may not be available for all aircraft. If an ACN table or chart is available, the ACN can be calculated by taking into account the aircraft weight, the pavement type, and the subgrade category. For runways that have been evaluated under the ACN/PCN system, the PCN will be shown as a five-part code (e.g. PCN 80 R/B/W/T), Details of the coded format are as follows:

- (1) The PCN NUMBER-The reported PCN indicates that an aircraft with an ACN equal or less than the reported PCN can operate on the pavement subject to any limitation on the tire pressure.
- (2) The type of pavement:
 - R Rigid
 - F Flexible
- (3) The pavement subgrade category:
 - A High
 - B Medium
 - C Low
 - D Ultra-low

- (4) The maximum tire pressure authorized for the pavement:
 - W High, no limit
 - X Medium, limited to 217 psi
 - Y Low, limited to 145 psi
- Z Very low, limited to 73 psi (5) Pavement evaluation method:
 - T Technical evaluation
 - U By experience of aircraft using the payement

NOTE: Prior permission from the airport controlling authority is required when the ACN of the aircraft exceeds the published PCN or aircraft tire pressure exceeds the published limits.

RUNWAY LIGHTING

Lights are in operation sunset to sunrise. Lighting available by prior arrangement only or operating part of the night and/or pilot controlled lighting with specific operating hours are indicated under airport or military remarks. At USN/USMC facilities lights are available only during airport hours of operation. Since obstructions are usually lighted, obstruction lighting is not included in this code. Unlighted obstructions on or surrounding an airport will be noted in airport or military remarks. Runway lights nonstandard (NSTD) are systems for which the light fixtures are not FAA approved L-800 series: color, intensity, or spacing does not meet FAA standards. Nonstandard runway lights, VASI, or any other system not listed below will be shown in airport remarks or military service. Temporary, emergency or limited runway edge lighting such as flares, smudge pots. lanterns or portable runway lights will also be shown in airport remarks or military service. Types of lighting are shown with the runway or runway end they serve.

NSTD-Light system fails to meet FAA standards.

LIRL-Low Intensity Runway Lights.

MIRL-Medium Intensity Runway Lights.

HIRL-High Intensity Runway Lights.

RAIL—Runway Alignment Indicator Lights.

REIL—Runway End Identifier Lights.

CL-Centerline Lights.

TDZL-Touchdown Zone Lights.

ODALS-Omni Directional Approach Lighting System.

AF OVRN-Air Force Overrun 1000' Standard

Approach Lighting System.

LDIN-Lead-In Lighting System.

MALS-Medium Intensity Approach Lighting System.

MALSF-Medium Intensity Approach Lighting System with Sequenced Flashing Lights.

MALSR-Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights.

SALS-Short Approach Lighting System.

SALSF-Short Approach Lighting System with Sequenced Flashing Lights.

SSALS—Simplified Short Approach Lighting System.

SSALF—Simplified Short Approach Lighting System with Sequenced Flashing Lights.

SSALR—Simplified Short Approach Lighting System with Runway Alignment Indicator Lights.

ALSAF-High Intensity Approach Lighting System with Sequenced Flashing Lights.

ALSF1-High Intensity Approach Lighting System with Sequenced Flashing Lights, Category I, Configuration.

ALSF2-High Intensity Approach Lighting System with Se-

quenced Flashing Lights, Category II, Configuration. SF-Sequenced Flashing Lights.

OLS-Optical Landing System.

WAVE-OFF.

NOTE: Civil ALSF2 may be operated as SSALR during favorable weather conditions. When runway edge lights are positioned more than 10 feet from the edge of the usable runway surface a remark will be added in the "Remarks" portion of the airport entry. This is applicable to Air Force, Air National Guard and Air Force Reserve Bases, and those joint civil/military airfields on which they are tenants.

2-box SAVASI on right side of runway

DIRECTORY LEGEND

VISUAL GLIDESLOPE INDICATORS

-	APAP—A sys	tem of panels, which may or may not be lighted, used fo	r alignme	ent of approach path.				
	PNIL	APAP on left side of runway	PNIR	APAP on right side of runway				
F	PAPI—Precis	ion Approach Path Indicator						
	P2L	2-identical light units placed on left side of	P4L	4-identical light units placed on left side of				
		runway		runway				
	P2R	2-identical light units placed on right side of	P4R	4-identical light units placed on right side of				
		runway		runway				
F	PVASI—Pulsa	ating/steady burning visual approach slope indicator, no	rmally a	single light unit projecting two colors.				
	PSIL	PVASI on left side of runway	PSIR	PVASI on right side of runway				
	SAVASI—Simplified Abbreviated Visual Approach Slope Indicator							

TRCV—Tri-color visual approach slope indicator, normally a single light unit projecting three colors.

2-box SAVASI on left side of runway

TRIL	TRCV on left side of runway	TRIR	TRCV on right side of runway
VASI—Visua	al Approach Slope Indicator		
V2L	2-box VASI on left side of runway	V6L	6-box VASI on left side of runway
V2R	2-box VASI on right side of runway	V6R	6-box VASI on right side of runway
V4L	4-box VASI on left side of runway	V12	12-box VASI on both sides of runway
V4R	4-box VASI on right side of runway	V16	16-box VASI on both sides of runway

NOTE: Approach slope angle and threshold crossing height will be shown when available; i.e., -GA 3.5° TCH 37'.

PILOT CONTROL OF AIRPORT LIGHTING

Key Mike	Function
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-Off)
3 times within 5 seconds	Lowest intensity available
	(Lower REIL or REIL-Off)

Available systems will be indicated in the airport or military remarks, e.g., ACTIVATE HIRL Rwy 07–25, MALSR Rwy 07, and VASI Rwy 07—122.8.

Where the airport is not served by an instrument approach procedure and/or has an independent type system of different specification installed by the airport sponsor, descriptions of the type lights, method of control, and operating frequency will be explained in clear text. See AIM, "Basic Flight Information and ATC Procedures," for detailed description of pilot control of airport lighting.

When available, runway slope data will only be provided for those airports with an approved FAA instrument approach procedure. Runway slope will be shown only when it is 0.3 percent or greater. On runways less than 8000 feet, the direction of the slope up will be indicated, e.g., 0.3% up NW. On runways 8000 feet or greater, the slope will be shown (up or down) on the runway end line, e.g., RWY 13: 0.3% up., RWY 21: Pole. Rgt tfc. 0.4% down.

RUNWAY END DATA

Information pertaining to the runway approach end such as approach lights, touchdown zone lights, runway end identification lights, visual glideslope indicators, displaced thresholds, controlling obstruction, and right hand traffic pattern, will be shown on the specific runway end. "Rgt tfc"—Right traffic indicates right turns should be made on landing and takeoff for specified runway end.

LAND AND HOLD SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for "Land and Hold Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold–short operations and markings.

RUNWAY DECLARED DISTANCE INFORMATION

TORA—Take-off Run Available. The length of runway declared available and suitable for the ground run of an aeroplane take-off

TODA—Take-off Distance Available. The length of the take-off run available plus the length of the clearway, if provided.

ASDA—Accelerate-Stop Distance Available. The length of the take-off run available plus the length of the stopway, if provided. LDA—Landing Distance Available. The length of runway which is declared available and suitable for the ground run of an aeroplane landing.

(22) ARRESTING GEAR/SYSTEMS

S2L

Arresting gear is shown as it is located on the runway. The a–gear distance from the end of the appropriate runway (or into the overrun) is indicated in parentheses. A–Gear which has a bi–direction capability and can be utilized for emergency approach end engagement is indicated by a (B). The direction of engaging device is indicated by an arrow. Up to 15 minutes advance notice may be required for rigging A–Gear for approach and engagement. Airport listing may show availability of other than US Systems. This information is provided for emergency requirements only. Refer to current aircraft operating manuals for specific engagement weight and speed criteria based on aircraft structural restrictions and arresting system limitations.

Following is a list of current systems referenced in this publication identified by both Air Force and Navy terminology:

BI-DIRECTIONAL CABLE (B)

12

<u>TYPE</u> <u>DESCRIPTION</u>

BAK-9 Rotary friction brake.

BAK-12A Standard BAK-12 with 950 foot run out, 1-inch cable and 40,000 pound weight setting. Rotary

friction brake.

BAK-12B Extended BAK-12 with 1200 foot run, 1½ inch Cable and 50,000 pounds weight setting. Rotary

friction brake

E28 Rotary Hydraulic (Water Brake).
M21 Rotary Hydraulic (Water Brake) Mobile.

The following device is used in conjunction with some aircraft arresting systems:

BAK-14 A device that raises a hook cable out of a slot in the runway surface and is remotely positioned

for engagement by the tower on request. (In addition to personnel reaction time, the system

requires up to five seconds to fully raise the cable.)

H A device that raises a hook cable out of a slot in the runway surface and is remotely positioned

for engagement by the tower on request. (In addition to personnel reaction time, the system

requires up to one and one-half seconds to fully raise the cable.)

UNI-DIRECTIONAL CABLE

TYPE DESCRIPTION

MB60 Textile brake—an emergency one-time use, modular braking system employing the tearing of

specially woven textile straps to absorb the kinetic energy.

E5/E5-1/E5-3 Chain Type. At USN/USMC stations E-5 A-GEAR systems are rated, e.g., E-5 RATING-13R-1100

HW (DRY), 31L/R-1200 STD (WET). This rating is a function of the A-GEAR chain weight and length and is used to determine the maximum aircraft engaging speed. A dry rating applies to a stabilized surface (dry or wet) while a wet rating takes into account the amount (if any) of wet overrun that is not capable of withstanding the aircraft weight. These ratings are published under

Military Service.

FOREIGN CABLE

TYPE DESCRIPTION US EQUIVALENT

44B–3H Rotary Hydraulic) (Water Brake)

CHAG Chain E-5

UNI-DIRECTIONAL BARRIER

TYPE DESCRIPTION

MA-1A Web barrier between stanchions attached to a chain energy absorber.

BAK-15 Web barrier between stanchions attached to an energy absorber (water squeezer, rotary friction,

chain). Designed for wing engagement.

NOTE: Landing short of the runway threshold on a runway with a BAK–15 in the underrun is a significant hazard. The barrier in the down position still protrudes several inches above the underrun. Aircraft contact with the barrier short of the runway threshold can cause damage to the barrier and substantial damage to the aircraft.

OTHER

TYPE DESCRIPTION

EMAS Engineered Material Arresting System, located beyond the departure end of the runway, consisting of

high energy absorbing materials which will crush under the weight of an aircraft.

23 MILITARY SERVICE

Specific military services available at the airport are listed under this general heading. Remarks applicable to any military service are shown in the individual service listing.

(24) JET AIRCRAFT STARTING UNITS (JASU)

The numeral preceding the type of unit indicates the number of units available. The absence of the numeral indicates ten or more units available. If the number of units is unknown, the number one will be shown. Absence of JASU designation indicates non-availability.

The following is a list of current JASU systems referenced in this publication:

USAF JASU (For variations in technical data, refer to T.O. 35–1–7.)

ELECTRICAL STARTING UNITS:

A/M32A-86 AC: 115/200v, 3 phase, 90 kva, 0.8 pf, 4 wire

DC: 28v, 1500 amp, 72 kw (with TR pack)

MC-1A AC: 115/208v, 400 cycle, 3 phase, 37.5 kva, 0.8 pf, 108 amp, 4 wire

DC: 28v, 500 amp, 14 kw

MD-3 AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

DC: 28v. 1500 amp. 45 kw. split bus

MD-3A AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

DC: 28v, 1500 amp, 45 kw, split bus

MD-3M AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

DC: 28v, 500 amp, 15 kw

MD-4 AC: 120/208v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 175 amp, "WYE" neutral ground, 4 wire, 120v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 303 amp, "DELTA" 3 wire, 120v, 400 cycle, 1 phase, 62.5

kva. 0.8 pf. 520 amp. 2 wire

AIR STARTING UNITS

AM32–95 150 + / - 5 lb/min (2055 + / - 68 cfm) at 51 + / - 2 psia AM32A–95 150 + / - 5 lb/min @ 49 + / - 2 psia (35 + / - 2 psig)

LASS 150 +/- 5 lb/min @ 49 +/- 2 psia

MA-1A 82 lb/min (1123 cfm) at 130° air inlet temp, 45 psia (min) air outlet press

MC-1 15 cfm, 3500 psia MC-1A 15 cfm, 3500 psia MC-2A 15 cfm, 200 psia

MC-11 8,000 cu in cap, 4000 psig, 15 cfm

COMBINED AIR AND ELECTRICAL STARTING UNITS:

AGPU AC: 115/200v, 400 cycle, 3 phase, 30 kw gen

DC: 28v, 700 amp

AIR: 60 lb/min @ 40 psig @ sea level

AM32A-60* AIR: 120 + -4 lb/min (1644 + -55 cfm) at 49 + -2 psia

AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire, 120v, 1 phase, 25 kva

DC: 28v, 500 amp, 15 kw

AM32A-60A AIR: 150 + / - 5 lb/min (2055 + / - 68 cfm at 51 + / - psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire

DC: 28v. 200 amp. 5.6 kw

AIR: 130 lb/min, 50 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire

DC: 28v, 200 amp, 5.6 kw

*NOTE: During combined air and electrical loads, the pneumatic circuitry takes preference and will limit the amount of electrical power available.

USN JASU

AM32A-60B*

ELECTRICAL STARTING UNITS:

NC-8A/A1 DC: 500 amp constant, 750 amp intermittent, 28v;

AC: 60 kva @ .8 pf, 115/200v, 3 phase, 400 Hz.

NC-10A/A1/B/C

DC: 750 amp constant, 1000 amp intermittent, 28v:

AC: 90 kva, 115/200v, 3 phase, 400 Hz.

AIR STARTING UNITS:

GTC-85/GTE-85 120 lbs/min @ 45 psi. MSU-200NAV/A/U47A-5 204 lbs/min @ 56 psia.

WELLS AIR START 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. Simultaneous multiple start capability.

SYSTEM

COMBINED AIR AND ELECTRICAL STARTING UNITS:

NCPP-105/RCPT 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. 700 amp, 28v DC. 120/208v, 400 Hz AC,

30 kva.

JASU (ARMY)

59B2-1B 28v, 7.5 kw, 280 amp.

OTHER JASL

ELECTRICAL STARTING UNITS (DND):

CE12 AC 115/200v, 140 kva, 400 Hz, 3 phase CE13 AC 115/200v, 60 kva, 400 Hz, 3 phase

CE14 AC/DC 1.15/200v, 140 kva, 400 Hz, 3 phase, 28vDC, 1500 amp
CE15 DC 22-35v, 500 amp continuous 1.100 amp intermittent
CE16 DC 22-35v, 500 amp continuous 1.100 amp intermittent soft start

AIR STARTING UNITS (DND):

CA2 ASA 45.5 psig, 116.4 lb/min COMBINED AIR AND ELECTRICAL STARTING UNITS (DND)

CEA1 AC 120/208v, 60 kva, 400 Hz, 3 phase DC 28v, 75 amp

AIR 112.5 lb/min, 47 psig

ELECTRICAL STARTING UNITS (OTHER)

C-26 28v 45kw 115-200v 15kw 380-800 Hz 1 phase 2 wire

C-26-B, C-26-C 28v 45kw: Split Bus: 115-200v 15kw 380-800 Hz 1 phase 2 wire

E3 DC 28v/10kw

AIR STARTING UNITS (OTHER):

A4 40 psi/2 lb/sec (LPAS Mk12, Mk12L, Mk12A, Mk1, Mk2B)

MA-1 150 Air HP, 115 lb/min 50 psia MA-2 250 Air HP, 150 lb/min 75 psia

CARTRIDGE:

MXU-4A USAF



Fuel available through US Military Base supply, DESC Into-Plane Contracts and/or reciprocal agreement is listed first and is followed by (Mil). At commercial airports where Into-Plane contracts are in place, the name of the refueling agent is shown. Military fuel should be used first if it is available. When military fuel cannot be obtained but Into-Plane contract fuel is available, Government aircraft must refuel with the contract fuel and applicable refueling agent to avoid any breach in contract terms and conditions. Fuel not available through the above is shown preceded by NC (no contract). When fuel is obtained from NC sources, local purchase procedures must be followed. The US Military Aircraft Identaplates DD Form 1896 (Jet Fuel), DD Form 1897 (Avgas) and AF Form 1245 (Avgas) are used at military installations only. The US Government Aviation Into-Plane Reimbursement (AIR) Card (currently issued by AVCARD) is the instrument to be used to obtain fuel under a DESC Into-Plane Contract and for NC purchases if the refueling agent at the commercial airport accepts the AVCARD. A current list of contract fuel locations is available online at www.desc.dla.mil/Static/ProductsAndServices.asp; click on the Commercial Airports button.

See legend item 14 for fuel code and description.

26 SUPPORTING FLUIDS AND SYSTEMS—MILITARY

CODE

ADI Anti-Detonation Injection Fluid—Reciprocating Engine Aircraft.

W Water Thrust Augmentation—Jet Aircraft.

WAI Water-Alcohol Injection Type, Thrust Augmentation—Jet Aircraft.

SP Single Point Refueling.

PRESAIR Air Compressors rated 3,000 PSI or more.

De-Ice Anti-icing/De-icing/Defrosting Fluid (MIL-A-8243).

OXYGEN:

LPOX Low pressure oxygen servicing.
HPOX High pressure oxygen servicing.
LHOX Low and high pressure oxygen servicing.

LOX Liquid oxygen servicing.

OXRB Oxygen replacement bottles. (Maintained primarily at Naval stations for use in acft where oxygen can be

replenished only by replacement of cylinders.)

OX Indicates oxygen servicing when type of servicing is unknown.

NOTE: Combinations of above items is used to indicate complete oxygen servicing available;

LHOXRB Low and high pressure oxygen servicing and replacement bottles;

LPOXRB Low pressure oxygen replacement bottles only, etc.

NOTE: Aircraft will be serviced with oxygen procured under military specifications only. Aircraft will not be serviced with medical oxygen.

NITROGEN:

LPNIT — Low pressure nitrogen servicing.

HPNIT — High pressure nitrogen servicing.

LHNIT — Low and high pressure nitrogen servicing.

27 OIL—MILITARY

US AVIATION OILS (MIL SPECS):

CODE GRADE, TYPE 0 - 1131065, Reciprocating Engine Oil (MIL-L-6082) 0 - 1171100, Reciprocating Engine Oil (MIL-L-6082) 0 - 117 +1100, 0-117 plus cyclohexanone (MIL-L-6082) 1065, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type III) 0 - 1230 - 1281100, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type II) 0 - 1321005, Jet Engine Oil (MIL-L-6081) 0 - 1331010, Jet Engine Oil (MIL-L-6081) 0 - 147None, MIL-L-6085A Lubricating Oil, Instrument, Synthetic 0 - 148None, MIL-L-7808 (Synthetic Base) Turbine Engine Oil 0-149 None, Aircraft Turbine Engine Synthetic, 7.5c St 0 - 155None, MIL-L-6086C, Aircraft, Medium Grade

0–156 None, MIL–L–23699 (Synthetic Base), Turboprop and Turboshaft Engines

JOAP/SOAP Joint Oil Analysis Program. JOAP support is furnished during normal duty hours, other times on request.

(JOAP and SOAP programs provide essentially the same service, JOAP is now the standard joint service

supported program.)

28 TRANSIENT ALERT (TRAN ALERT)—MILITARY

Tran Alert service is considered to include all services required for normal aircraft turn-around, e.g., servicing (fuel, oil, oxygen, etc.), debriefing to determine requirements for maintenance, minor maintenance, inspection and parking assistance of transient aircraft. Drag chute repack, specialized maintenance, or extensive repairs will be provided within the capabilities and priorities of the base. Delays can be anticipated after normal duty hours/holidays/weekends regardless of the hours of transient maintenance operation. Pilots should not expect aircraft to be serviced for TURN-AROUNDS during time periods when servicing or maintenance manpower is not available. In the case of airports not operated exclusively by US military, the servicing indicated by the remarks will not always be available for US military

aircraft. When transient alert services are not shown, facilities are unknown. NO PRIORITY BASIS—means that transient alert services will be provided only after all the requirements for mission/tactical assigned aircraft have been accomplished.

(29) AIRPORT REMARKS

The Attendance Schedule is the months, days and hours the airport is actually attended. Airport attendance does not mean watchman duties or telephone accessibility, but rather an attendant or operator on duty to provide at least minimum services (e.g., repairs, fuel, transportation).

Airport Remarks have been grouped in order of applicability. Airport remarks are limited to those items of information that are determined essential for operational use, i.e., conditions of a permanent or indefinite nature and conditions that will remain in effect for more than 30 days concerning aeronautical facilities, services, maintenance available, procedures or hazards, knowledge of which is essential for safe and efficient operation of aircraft. Information concerning permanent closing of a runway or taxiway will not be shown. A note "See Special Notices" shall be applied within this remarks section when a special notice applicable to the entry is contained in the Special Notices section of this publication.

Parachute Jumping indicates parachute jumping areas associated with the airport. See Parachute Jumping Area section of this publication for additional Information.

Landing Fee indicates landing charges for private or non-revenue producing aircraft. In addition, fees may be charged for planes that remain over a couple of hours and buy no services, or at major airline terminals for all aircraft.

Note: Unless otherwise stated, remarks including runway ends refer to the runway's approach end.

30 MILITARY REMARKS

Military Remarks published at a joint Civil/Military facility are remarks that are applicable to the Military. At Military Facilities all remarks will be published under the heading Military Remarks. Remarks contained in this section may not be applicable to civil users. The first group of remarks is applicable to the primary operator of the airport. Remarks applicable to a tenant on the airport are shown preceded by the tenant organization, i.e., (A) (AF) (N) (ANG), etc. Military airports operate 24 hours unless otherwise specified. Airport operating hours are listed first (airport operating hours will only be listed if they are different than the airport attended hours or if the attended hours are unavailable) followed by pertinent remarks in order of applicability. Remarks will include information on restrictions, hazards, traffic pattern, noise abatement, customs/agriculture/immigration, and miscellaneous information applicable to the Military.

Type of restrictions:

CLOSED: When designated closed, the airport is restricted from use by all aircraft unless stated otherwise. Any closure applying to specific type of aircraft or operation will be so stated. USN/USMC/USAF airports are considered closed during non-operating hours. Closed airports may be utilized during an emergency provided there is a safe landing area.

OFFICIAL BUSINESS ONLY: The airfield is closed to all transient military aircraft for obtaining routine services such as fueling, passenger drop off or pickup, practice approaches, parking, etc. The airfield may be used by aircraws and aircraft if official government business (including civilian) must be conducted on or near the airfield and prior permission is received from the airfield manager.

AF OFFICIAL BUSINESS ONLY OR NAVY OFFICIAL BUSINESS ONLY: Indicates that the restriction applies only to service indicated.

PRIOR PERMISSION REQUIRED (PPR): Airport is closed to transient aircraft unless approval for operation is obtained from the appropriate commander through Chief, Airfield Management or Airfield Operations Officer. Official Business or PPR does not preclude the use of US Military airports as an alternate for IFR flights. If a non-US military airport is used as a weather alternate and requires a PPR, the PPR must be requested and confirmed before the flight departs. The purpose of PPR is to control volume and flow of traffic rather than to prohibit it. Prior permission is required for all aircraft requiring transient alert service outside the published transient alert duty hours. All aircraft carrying hazardous materials must obtain prior permission as outlined in AFJI 11–204, AR 95–27, OPNAVINST 3710.7.

Note: OFFICIAL BUSINESS ONLY AND PPR restrictions are not applicable to Special Air Mission (SAM) or Special Air Resource (SPAR) aircraft providing person or persons on aboard are designated Code 6 or higher as explained in AFJMAN 11–213, AR 95–11, OPNAVINST 3722–8J. Official Business Only or PPR do not preclude the use of the airport as an alternate for IFR flights.

③1) WEATHER DATA SOURCES

Weather data sources will be listed alphabetically followed by their assigned frequencies and/or telephone number and hours of operation.

ASOS—Automated Surface Observing System. Reports the same as an AWOS-3 plus precipitation identification and intensity, and freezing rain occurrence (future enhancement).

AWOS-Automated Weather Observing System

AWOS-A—reports altimeter setting (all other information is advisory only).

AWOS-1—reports altimeter setting, wind data and usually temperature, dewpoint and density altitude.

AWOS-2-reports the same as AWOS-1 plus visibility.

AWOS-3—reports the same as AWOS-1 plus visibility and cloud/ceiling data.

See AIM, Basic Flight Information and ATC Procedures for detailed description of AWOS.

HIWAS—See RADIO AIDS TO NAVIGATION

LAWRS—Limited Aviation Weather Reporting Station where observers report cloud height, weather, obstructions to vision, temperature and dewpoint (in most cases), surface wind, altimeter and pertinent remarks.

LLWAS—indicates a Low Level Wind Shear Alert System consisting of a center field and several field perimeter anemometers. SAWRS—identifies airports that have a Supplemental Aviation Weather Reporting Station available to pilots for current weather information.

SWSL—Supplemental Weather Service Location providing current local weather information via radio and telephone.

TDWR—indicates airports that have Terminal Doppler Weather Radar.

WSP—indicates airports that have Weather System Processor.

When the automated weather source is broadcast over an associated airport NAVAID frequency (see NAVAID line), it shall be indicated by a bold ASOS, AWOS, or HIWAS followed by the frequency, identifier and phone number, if available.



Airport terminal control facilities and radio communications associated with the airport shall be shown. When the call sign is not the same as the airport name the call sign will be shown. Frequencies shall normally be shown in descending order with the primary frequency listed first. Frequencies will be listed, together with sectorization indicated by outbound radials, and hours of operation. Communications will be listed in sequence as follows:

Single Frequency Approach (SFA), Common Traffic Advisory Frequency (CTAF), Automatic Terminal Information Service (ATIS) and Aeronautical Advisory Stations (UNICOM) or (AUNICOM) along with their frequency is shown, where available, on the line following the heading "COMMUNICATIONS." When the CTAF and UNICOM frequencies are the same, the frequency will be shown as CTAF/UNICOM 122.8.

The FSS telephone nationwide is toll free 1–800–WX–BRIEF (1–800–992–7433). When the FSS is located on the field it will be indicated as "on arpt". Frequencies available at the FSS will follow in descending order. Remote Communications Outlet (RCO) providing service to the airport followed by the frequency and FSS RADIO name will be shown when available.

FSS's provide information on airport conditions, radio aids and other facilities, and process flight plans. Airport Advisory Service (AAS) is provided on the CTAF by FSS's for select non-tower airports or airports where the tower is not in operation.

(See AIM, Para 4-1-9 Traffic Advisory Practices at Airports Without Operating Control Towers or AC 90-42C.)

Aviation weather briefing service is provided by FSS specialists. Flight and weather briefing services are also available by calling the telephone numbers listed.

Remote Communications Outlet (RCO)—An unmanned air/ground communications facility that is remotely controlled and provides UHF or VHF communications capability to extend the service range of an FSS.

Civil Communications Frequencies-Civil communications frequencies used in the FSS air/ground system are operated on 122.0, 122.2, 123.6; emergency 121.5; plus receive-only on 122.1.

- a. 122.0 is assigned as the Enroute Flight Advisory Service frequency at selected FSS RADIO outlets.
- b. 122.2 is assigned as a common enroute frequency.
- c. 123.6 is assigned as the airport advisory frequency at select non-tower locations. At airports with a tower, FSS may provide airport advisories on the tower frequency when tower is closed.
- d. 122.1 is the primary receive-only frequency at VOR's.
- e. Some FSS's are assigned 50 kHz frequencies in the 122–126 MHz band (eg. 122.45). Pilots using the FSS A/G system should refer to this directory or appropriate charts to determine frequencies available at the FSS or remoted facility through which they wish to communicate.

Emergency frequency 121.5 and 243.0 are available at all Flight Service Stations, most Towers, Approach Control and RADAR facilities.

Frequencies published followed by the letter "T" or "R", indicate that the facility will only transmit or receive respectively on that frequency. All radio aids to navigation (NAVAID) frequencies are transmit only.

TERMINAL SERVICES

SFA—Single Frequency Approach.

CTAF—A program designed to get all vehicles and aircraft at airports without an operating control tower on a common frequency.

ATIS—A continuous broadcast of recorded non-control information in selected terminal areas.

D-ATIS—Digital ATIS provides ATIS information in text form outside the standard reception range of conventional ATIS via landline & data link communications and voice message within range of existing transmitters.

AUNICOM—Automated UNICOM is a computerized, command response system that provides automated weather, radio check capability and airport advisory information selected from an automated menu by microphone clicks.

UNICOM—A non-government air/ground radio communications facility which may provide airport information.

PTD—Pilot to Dispatcher.

APP CON—Approach Control. The symbol (R) indicates radar approach control.

TOWER—Control tower.

GCA—Ground Control Approach System.

GND CON—Ground Control

GCO—Ground Communication Outlet—An unstaffed, remotely controlled, ground/ground communications facility. Pilots at uncontrolled airports may contact ATC and FSS via VHF to a telephone connection to obtain an instrument clearance or close a VFR or IFR flight plan. They may also get an updated weather briefing prior to takeoff. Pilots will use four "key clicks" on the

VHF radio to contact the appropriate ATC facility or six "key clicks" to contact the FSS. The GCO system is intended to be used only on the ground.

DEP CON—Departure Control. The symbol R indicates radar departure control.

CLNC DEL-Clearance Delivery.

PRE TAXI CLNC-Pre taxi clearance.

VFR ADVSY SVC—VFR Advisory Service. Service provided by Non-Radar Approach Control.

Advisory Service for VFR aircraft (upon a workload basis) ctc APP CON.

COMD POST—Command Post followed by the operator call sign in parenthesis.

PMSV—Pilot-to-Metro Service call sign, frequency and hours of operation, when full service is other than continuous.

PMSV installations at which weather observation service is available shall be indicated, following the frequency and/or

hours of operation as "Wx obsn svc 1900–0000Z‡" or "other times" may be used when no specific time is given. PMSV facilities manned by forecasters are considered "Full Service". PMSV facilities manned by weather observers are listed as "Limited Service".

OPS—Operations followed by the operator call sign in parenthesis.

CON

RANGE

FLT FLW-Flight Following

MEDIVAC

NOTE: Communication frequencies followed by the letter "X" indicate frequency available on request.

33 AIRSPACE

Information concerning Class B, C, and part-time D and E surface area airspace shall be published with effective times. Class D and E surface area airspace that is continuous as established by Rulemaking Docket will not be shown.

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 ${\tt CLASS\ B--Radar\ Sequencing\ and\ Separation\ Service\ for\ all\ aircraft\ in\ CLASS\ B\ airspace.}$

CLASS C—Separation between IFR and VFR aircraft and sequencing of VFR arrivals to the primary airport.

TRSA—Radar Sequencing and Separation Service for participating VFR Aircraft within a Terminal Radar Service Area.

Class C, D, and E airspace described in this publication is that airspace usually consisting of a 5 NM radius core surface area that begins at the surface and extends upward to an altitude above the airport elevation (charted in MSL for Class C and Class D). Class E surface airspace normally extends from the surface up to but not including the overlying controlled airspace.

When part-time Class C or Class D airspace defaults to Class E, the core surface area becomes Class E. This will be formatted as:

AIRSPACE: CLASS C svc "times" ctc APP CON other times CLASS E:

0

AIRSPACE: CLASS D svc "times" other times CLASS E.

When a part-time Class C, Class D or Class E surface area defaults to Class G, the core surface area becomes Class G up to, but not including, the overlying controlled airspace. Normally, the overlying controlled airspace is Class E airspace beginning at either 700' or 1200' AGL. This will be formatted as:

AIRSPACE: CLASS C svc "times" ctc APP CON other times CLASS G, with CLASS E 700' (or 1200') AGL & abv:

0

AIRSPACE: CLASS D svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv:

or

AIRSPACE: CLASS E svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv.

NOTE: AIRSPACE SVC "TIMES" INCLUDE ALL ASSOCIATED ARRIVAL EXTENSIONS. Surface area arrival extensions for instrument approach procedures become part of the primary core surface area. These extensions may be either Class D or Class E airspace and are effective concurrent with the times of the primary core surface area. For example, when a part-time Class C, Class D or Class E surface area defaults to Class G, the associated arrival extensions will default to Class G at the same time. When a part-time Class C or Class D surface area defaults to Class E, the arrival extensions will remain in effect as Class E airspace.

NOTE: CLASS E AIRSPACE EXTENDING UPWARD FROM 700 FEET OR MORE ABOVE THE SURFACE, DESIGNATED IN CONJUNCTION WITH AN AIRPORT WITH AN APPROVED INSTRUMENT PROCEDURE.

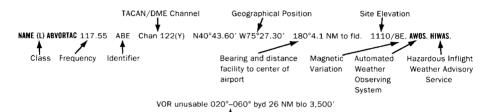
Class E 700′ AGL (shown as magenta vignette on sectional charts) and 1200′ AGL (blue vignette) areas are designated when necessary to provide controlled airspace for transitioning to/from the terminal and enroute environments. Unless otherwise specified, these 700′/1200′ AGL Class E airspace areas remain in effect continuously, regardless of airport operating hours or surface area status. These transition areas should not be confused with surface areas or arrival extensions.

(See Chapter 3, AIRSPACE, in the Aeronautical Information Manual for further details)



The Airport/Facility Directory lists, by facility name, all Radio Aids to Navigation that appear on National Aeronautical Charting Office Visual or IFR Aeronautical Charts and those upon which the FAA has approved an Instrument Approach Procedure, with exception of selected TACANs. Military TACAN information will be published for Military facilities contained in this publication. All VOR, VORTAC, TACAN, ILS and MLS equipment in the National Airspace System has an automatic monitoring and shutdown feature in the event of malfunction. Unmonitored, as used in this publication, for any navigational aid, means that monitoring personnel cannot observe the malfunction or shutdown signal. The NAVAID NOTAM file identifier will be shown as "NOTAM FILE IAD" and will be listed on the Radio Aids to Navigation line. When two or more NAVAIDS are listed and the NOTAM file identifiers is different from that shown on the Radio Aids to Navigation line, it will be shown with the NAVAID listing. NOTAM file identifiers for ILSs and its components (e.g., NDB (LOM) are the same as the associated airports and are not repeated. Automated Surface Observing System (ASOS), Automated Weather Observing System (ASOS), and Hazardous Inflight Weather Advisory Service (HIWAS) will be shown when this service is broadcast over selected NAVAIDS.

NAVAID information is tabulated as indicated in the following sample:



Restriction within the normal altitude/range of the navigational aid (See primary alphabetical listing for restrictions on VORTAC and VOR/DME).

Note: Those DME channel numbers with a (Y) suffix require TACAN to be placed in the "Y" mode to receive distance information

HIWAS—Hazardous Inflight Weather Advisory Service is a continuous broadcast of inflight weather advisories including summarized SIGMETs, convective SIGMETs, AIRMETs and urgent PIREPs. HIWAS is presently broadcast over selected VOR's and will be implemented throughout the conterminous U.S.

ASR/PAR—Indicates that Surveillance (ASR) or Precision (PAR) radar instrument approach minimums are published in the U.S. Terminal Procedures. Only part-time hours of operation will be shown.

RADIO CLASS DESIGNATIONS

VOR/DME/TACAN Standard Service Volume (SSV) Classifications

SSV Class	Altitudes	Distance
		(NM)
(T) Terminal	1000' to 12,000'	25
(L) Low Altitude	1000' to 18,000'	40
(H) High Altitude	1000' to 14,500'	40
	14,500' to 18,000'	100
	18,000' to 45,000'	130
	45.000' to 60.000'	100

NOTE: Additionally, (H) facilities provide (L) and (T) service volume and (L) facilities provide (T) service. Altitudes are with respect to the station's site elevation. Coverage is not available in a cone of airspace directly above the facility.

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The term VOR is, operationally, a general term covering the VHF omnidirectional bearing type of facility without regard to the fact that the power, the frequency protected service volume, the equipment configuration, and operational requirements may vary between facilities at different locations.

=	
AB	Automatic Weather Broadcast.
DF	Direction Finding Service.
DME	UHF standard (TACAN compatible) distance measuring equipment.
DME(Y)	UHF standard (TACAN compatible) distance measuring equipment that require TACAN to be placed in the "Y" mode to receive DME.
GS	Glide slope.
Н	Non-directional radio beacon (homing), power 50 watts to less than 2,000 watts (50 NM at all altitudes).
HH	Non-directional radio beacon (homing), power 2,000 watts or more (75 NM at all altitudes).
H-SAB	Non-directional radio beacons providing automatic transcribed weather service.
ILS	Instrument Landing System (voice, where available, on localizer channel).
IM	Inner marker.
ISMLS	Interim Standard Microwave Landing System.
LDA	Localizer Directional Aid.
LMM	Compass locator station when installed at middle marker site (15 NM at all altitudes).
LOM	Compass locator station when installed at outer marker site (15 NM at all altitudes).
MH	Non-directional radio beacon (homing) power less than 50 watts (25 NM at all altitudes).
MLS	Microwave Landing System.
MM	Middle marker.
OM	Outer marker.
S	Simultaneous range homing signal and/or voice.
SABH	Non-directional radio beacon not authorized for IFR or ATC. Provides automatic weather broadcasts.
SDF	Simplified Direction Facility.
TACAN	UHF navigational facility-omnidirectional course and distance information.
VOR	VHF navigational facility-omnidirectional course only.
VOR/DME	Collocated VOR navigational facility and UHF standard distance measuring equipment.
VORTAC	Collocated VOR and TACAN navigational facilities.
W	Without voice on radio facility frequency.
Z	VHF station location marker at a LF radio facility.

ILS FACILITY PEFORMANCE CLASSIFICATION CODES

Codes define the ability of an ILS to support autoland operations. The two portions of the code represent Official Category and farthest point along a Category I, II, or III approach that the Localizer meets Category III structure tolerances.

Official Category: I, II, or III; the lowest minima on published or unpublished procedures supported by the ILS.

Farthest point of satisfactory Category III Localizer performance for Category I, II, or III approaches: A-4 NM prior to runway threshold, B-3500 ft prior to runway threshold, C-glide angle dependent but generally 750–1000 ft prior to threshold, T-runway threshold, D-3000 ft after runway threshold, and E-2000 ft prior to stop end of runway.

ILS information is tabulated as indicated in the following sample:



FREQUENCY PAIRING PLAN AND MLS CHANNELING

I REGULTOT I AIRTHU I EAR AND MES CHARRELING								
MLS	VHF	TACAN	MLS	VHF	TACAN	MLS	VHF	TACAN
CHANNEL	FREQUENCY	CHANNEL	CHANNEL	FREQUENCY	CHANNEL	CHANNEL	FREQUENCY	CHANNEL
500	108.10	18X	568	109.45	31Y	636	114.15	88Y
502	108.30	20X	570	109.55	32Y	638	114.25	89Y
504	108.50	22X	572	109.65	33Y	640	114.35	90Y
506	108.70	24X	574	109.75	34Y	642	114.45	91Y
508	108.90	26X	576	109.85	35Y	644	114.55	92Y
510	109.10	28X	578	109.95	36Y	646	114.65	93Y
512	109.30	30X	580	110.05	37Y	648	114.75	94Y
514	109.50	32X	582	110.15	38Y	650	114.85	95Y
516	109.70	34X	584	110.25	39Y	652	114.95	96Y
518	109.90	36X	586	110.35	40Y	654	115.05	97Y
520	110.10	38X	588	110.45	41Y	656	115.15	98Y
522	110.30	40X	590	110.55	42Y	658	115.25	99Y
524	110.50	42X	592	110.65	43Y	660	115.35	100Y
526	110.70	44X	594	110.75	44Y	662	115.45	101Y
528	110.90	46X	596	110.85	45Y	664	115.55	102Y
530	111.10	48X	598	110.95	46Y	666	115.65	103Y
532	111.30	50X	600	111.05	47Y	668	115.75	104Y
534	111.50	52X	602	111.15	48Y	670	115.85	105Y
536	111.70	54X	604	111.25	49Y	672	115.95	106Y
538	111.90	56X	606	111.35	50Y	674	116.05	107Y
540	108.05	17Y	608	111.45	51Y	676	116.15	108Y
542	108.15	18Y	610	111.55	52Y	678	116.25	109Y
544	108.25	19Y	612	111.65	53Y	680	116.35	110Y
546	108.35	20Y	614	111.75	54Y	682	116.45	111Y
548	108.45	21Y	616	111.85	55Y	684	116.55	112Y
550	108.55	22Y	618	111.95	56Y	686	116.65	113Y
552	108.65	23Y	620	113.35	80Y	688	116.75	114Y
554	108.75	24Y	622	113.45	81Y	690	116.85	115Y
556	108.85	25Y	624	113.55	82Y	692	116.95	116Y
558	108.95	26Y	626	113.65	83Y	694	117.05	117Y
560	109.05	27Y	628	113.75	84Y	696	117.15	118Y
562	109.15	28Y	630	113.85	85Y	698	117.25	119Y
564	109.25	29Y	632	113.95	86Y			
566	109.35	30Y	634	114.05	87Y			

FREQUENCY PAIRING PLAN AND MLS CHANNELING

The following is a list of paired VOR/ILS VHF frequencies with TACAN channels and MLS channels.

TACAN	VHF	MLS	TACAN	VHF	MLS	TACAN	VHF	MLS
CHANNEL	FREQUENCY	CHANNEL	CHANNEL	FREQUENCY	CHANNEL	CHANNEL	FREQUENCY	CHANNEL
2X	134.5	-	19Y	108.25	544	25X	108.80	-
2Y	134.55	-	20X	108.30	502	25Y	108.85	556
11X	135.4	-	20Y	108.35	546	26X	108.90	508
11Y	135.45	-	21X	108.40	-	26Y	108.95	558
12X	135.5	-	21Y	108.45	548	27X	109.00	-
12Y	135.55	-	22X	108.50	504	27Y	109.05	560
17X	108.00	-	22Y	108.55	550	28X	109.10	510
17Y	108.05	540	23X	108.60	-	28Y	109.15	562
18X	108.10	500	23Y	108.65	552	29X	109.20	-
18Y	108.15	542	24X	108.70	506	29Y	109.25	564
19X	108.20	-	24Y	108.75	554	30X	109.30	512

30Y	TACAN Channel	VHF Frequency	MLS Channel	TACAN Channel	VHF Frequency	MLS Channel	TACAN Channel	VHF Frequency	MLS Channel
31X						-			
32X 109.50 514 64Y 133.75 - 97X 115.00 - 654 33X 109.60 - 66Y 133.80 - 98X 115.10 - 654 33X 109.60 - 66Y 133.95 - 98X 115.10 - 656 33X 109.60 - 66Y 133.95 - 98X 115.10 - 656 34X 109.70 516 66Y 133.95 - 99X 115.20 - 658 34X 109.75 574 67X 134.00 - 99Y 115.25 658 35X 109.80 - 67Y 134.05 - 100X 115.30 - 658 35X 109.80 - 67Y 134.05 - 100X 115.30 - 660 36X 109.90 518 68Y 134.10 - 100Y 115.26 660 36X 109.90 518 68Y 134.10 - 100Y 115.30 - 662 37X 110.00 - 69Y 134.25 - 100X 115.50 - 662 37X 110.00 - 69Y 134.25 - 100X 115.50 - 663 38X 109.80 - 70Y 112.35 - 100X 115.50 - 664 38X 110.10 520 70Y 112.35 - 100X 115.50 - 664 38X 110.10 520 70Y 112.35 - 100X 115.50 - 664 38X 110.10 520 70Y 112.35 - 100X 115.50 - 664 39X 110.25 584 72X 112.50 - 100X 115.70 668 40X 110.30 522 72Y 112.55 - 100X 115.70 668 40X 110.30 522 72Y 112.55 - 100X 115.80 666 40X 110.30 522 72Y 112.55 - 100X 115.80 666 40X 110.30 522 72Y 112.55 - 100X 115.80 670 41X 110.45 588 74X 112.60 - 109X 115.85 670 41X 110.65 590 75X 112.80 - 109X 115.85 670 41X 110.65 590 75X 112.80 - 109X 115.80 670 41X 110.50 524 74Y 112.75 - 100X 115.95 672 42Y 110.55 590 75X 112.80 - 100X 115.95 672 42Y 110.55 590 75X 112.80 - 100X 115.95 672 44Y 110.50 524 77X 112.95 - 100X 115.95 672 44Y 110.50 524 76X 112.80 - 100Y 116.05 674 44X 110.70 526 76X 112.80 - 100Y 116.55 684 46X 110.90 528 78X 113.90 - 110Y 116.05 674 44X 110.70 526 76Y 112.95 - 100X 116.05 674 44X 110.70 536 80Y 113.35 620 113X 116.00 - 100Y 116.55 684 46X 110.90 528 78X 113.10 - 110Y 116.55 684 46X 110.90 528 78X 113.10 - 110Y 116.55 684 47X 111.00 - 586 76Y 112.95 - 100Y 116.55 684 48X 111.00 - 588 78X 113.10 - 110Y 116.55 684 48X 111.00 - 588 78X 113.10 - 110Y 116.55 684 48X 111.00 - 588 78X 113.30 - 110Y 116.55 684 48X 111.00 - 588 78X 113.50 - 110X 116.50 - 58X 116.10 - 58X 117.7						-			-
32Y	31Y	109.45	568	64X	133.70	-	96Y	114.95	652
33X 109.60 - 66Y 133.85 - 98X 115.10 - 33Y 109.65 572 66X 133.90 - 98Y 115.15 656 34X 109.70 516 66Y 133.95 - 99X 115.20 - 34Y 109.75 574 67X 134.00 - 99Y 115.25 658 35X 109.80 - 67Y 134.05 - 100X 115.30 - 35Y 109.85 576 68X 134.10 - 100Y 115.35 660 36X 109.90 518 68Y 134.15 - 101X 115.40 - 36Y 109.95 578 68X 134.20 - 101Y 115.45 662 37X 110.00 - 69Y 134.25 - 102X 115.50 - 37Y 110.05 580 70X 112.30 - 102X 115.50 - 37Y 110.05 580 70X 112.30 - 102X 115.50 - 37Y 110.05 580 70X 112.30 - 102X 115.50 - 38Y 10.15 582 71X 112.40 - 103X 115.60 - 38Y 10.15 582 71X 112.40 - 103X 115.60 - 38Y 110.15 582 71X 112.40 - 103X 115.60 - 39Y 110.25 584 72X 112.50 - 104X 115.70 668 40X 110.30 522 72Y 112.55 - 104X 115.70 668 40X 110.30 522 72Y 112.55 - 104X 115.80 670 110.35 588 73X 112.60 - 105X 115.80 670 110.41 110.45 588 74X 112.75 - 106X 115.80 670 110.41 110.45 588 74X 112.75 - 106X 115.80 670 110.41 110.55 590 75Y 112.85 - 106X 115.80 670 110.41 110.55 590 75Y 112.85 - 106X 115.80 670 110.41 110.55 590 75Y 112.85 - 106X 115.80 670 110.41 110.55 590 75Y 112.85 - 106X 115.80 670 110.41 110.55 590 75Y 112.85 - 106X 115.80 670 110.41 110.55 590 75Y 112.85 - 106X 115.80 674 110.55 590 75Y 112.85 - 106X 115.55 678 110.65 592 76X 112.80 - 106Y 116.55 678 110.65 598 78Y 113.15 - 110Y 116.65 68 110Y 116.55 684 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 688 110.75 689 110.75 689 11	32X	109.50	514	64Y	133.75	-	97X	115.00	-
38X 109.65 572 66K 133.90 - 98Y 115.5 656 34X 109.70 516 66Y 133.95 - 99X 115.20 - 34Y 109.75 574 67X 134.00 - 99Y 115.25 658 35X 109.80 - 67Y 134.05 - 100X 115.30 - 35Y 109.85 576 68K 134.10 - 100Y 115.35 660 36X 109.90 518 68X 134.10 - 100Y 115.35 660 36X 109.90 518 68X 134.20 - 101Y 115.45 662 37X 110.00 - 69Y 134.25 - 102X 115.50 - 37Y 110.05 580 70X 112.30 - 102Y 115.55 664 38K 110.10 520 70Y 112.35 - 103X 115.60 - 38K 110.10 520 70Y 112.35 - 103X 115.65 664 38K 110.10 520 70Y 112.35 - 103X 115.65 664 39X 110.20 71Y 112.45 - 104X 115.70 668 40X 110.30 522 72Y 112.55 - 106X 115.80 - 40X 110.30 522 72Y 112.55 - 106X 115.80 - 41X 110.40 - 73Y 112.60 - 106Y 115.75 668 41X 110.40 - 73Y 112.65 - 106X 115.90 - 41X 110.45 588 74X 112.70 - 106Y 115.75 672 42X 110.50 524 74Y 112.75 - 107X 116.00 - 42X 110.50 592 76X 112.80 - 107Y 116.05 674 43X 110.60 - 75Y 112.85 - 106X 115.90 - 44X 110.70 526 76Y 112.95 - 106X 116.30 - 674 44X 110.70 526 76Y 112.95 - 106X 116.30 - 674 44X 110.70 526 76Y 112.95 - 106X 116.30 - 674 44X 110.70 526 76Y 112.95 - 106X 116.30 - 674 44X 110.70 526 76Y 112.95 - 106X 116.00 - 674 44X 110.70 526 76Y 112.95 - 106X 116.30 - 674 44X 110.70 526 76Y 112.95 - 106X 116.50 - 674 44X 110.70 526 76Y 112.95 - 106X 116.50 - 674 44X 110.70 526 76Y 112.95 - 106X 116.50 - 674 44X 110.70 526 76Y 112.95 - 106X 116.50 - 674 44X 110.70 526 76Y 112.95 - 106X 116.50 - 678 44X 110.80 - 77Y 113.05 - 110X 116.00 - 674 44X 110.70 526 76Y 112.95 - 106X 116.50 - 678 45Y 110.85 596 78X 113.10 - 110Y 116.55 680 46X 110.90 528 78Y 113.15 - 111X 116.40 - 682 47Y 111.05 500 80Y 113.95 622 114X 116.70 - 688 50X 111.30 532 88Y 113.50 - 114Y 116.75 688 50X 111.30 532 88Y 113.50 - 114Y 116.75 688 50X 111.30 532 88Y 113.55 622 114X 116.70 - 694 53X 111.60 - 88Y 113.85 632 119X 117.10 - 565 50Y 111.55 618 88X 113.80 - 117Y 117.05 698 50X 111.30 532 88Y 114.55 642 119X 117.75 698 50X 111.50 534 84Y 113.75 622 114X 117.70 - 1695 50X 111.95 618 88X 113.80 - 117Y 117.05 698 50X 111.85 616 88X 113.80 - 117Y 117.05 698 50X 111.95 618	32Y	109.55	570	65X	133.80	-	97Y	115.05	654
34X 109.70 516 66Y 133.95 - 99X 115.20 - 38X 109.80 - 67Y 134.00 - 99Y 115.25 658 38X 109.85 576 68X 134.10 - 100X 115.30 - 36X 109.95 578 68X 134.15 - 101X 115.40 - 37Y 110.00 - 69Y 134.25 - 102Y 115.55 664 38X 110.10 520 70Y 112.35 - 102Y 115.55 664 38Y 110.15 582 71X 112.40 - 103Y 115.65 666 39X 110.20 - 71Y 112.45 - 104Y 115.75 688 40X 110.30 522 72Y 112.55 - 104Y 115.75 688 40X 110.35 586 73X 112.65	33X	109.60	-	65Y	133.85	-	98X	115.10	-
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SSK	34X	109.70	516	66Y	133.95	-	99X	115.20	-
38Y 109.85 576 68X 134.10 - 100Y 115.35 660 36Y 109.95 578 69X 134.20 - 101Y 115.45 662 37X 110.00 69Y 134.25 - 101Y 115.55 664 38X 110.10 520 70Y 112.35 - 102Y 115.55 664 38X 110.15 582 71X 112.40 - 103Y 115.60 - 39X 110.25 584 72X 112.50 - 104X 115.70 - 40X 110.35 586 73X 112.60 - 105Y 115.80 - 40X 110.35 586 73X 112.60 - 105Y 115.80 - 41X 110.40 - 73Y 112.65 - 106X 115.90 - 41X 110.45 588 74X 112.70 -	34Y	109.75	574	67X	134.00	-	99Y	115.25	658
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	61Y	133.45	-	94X	114.70	-	126Y	117.95	-
62Y 133.55 - 95X 114.80 -			-			648			
	62Y	133.55	-	95X	114.80	-			

35 COMM/NAV/WEATHER REMARKS:

These remarks consist of pertinent information affecting the current status of communications, NAVAIDs and weather.

ADAMS CO LEGION FLD (See FRIENDSHIP ADAMS)

ALEXANDER FLD SOUTH WOOD CO (See WISCONSIN RAPIDS)

AMERON N45°16.89′ W92°22.28′ NOTAM FILE GRB.

NDB (MHW) 278 AHH at Amery Muni. Unusable byd 20 NM.

GREEN BAY

AMERY MUNI (AHH) 2 S UTC-6(-5DT) N45°16.87′ W92°22.52′

GREEN BAY

1088 B S4 FUEL 100LL, JET A NOTAM FILE GRB

L-14I, A IAP

RWY 18-36: H4001X75 (ASPH) S-12.5 MIRL

RWY 18: REIL. VASI(V2L)—GA 3.0° TCH 24′. Trees. RWY 36: REIL. VASI(V2L)—GA 3.0° TCH 24′. Road. AIRPORT REMARKS: Unattended. Radio controlled acft activity invof arpt. 100′ crane 1500′ SE of AER 36 dalgt hrs only. Rwy 36 safety area very rough. MIRL Rwy 18–36 preset low to increase ints and ACTIVATE VASI Rwy 18 and

COMMUNICATIONS: CTAF/UNICOM 122.8

RICE LAKE RCO 122.3 (GREEN BAY RADIO)

Rwy 36 and REIL Rwy 18 and Rwy 36-CTAF.

R MINNEAPOLIS CENTER APP/DEP CON 125.3

RADIO AIDS TO NAVIGATION: NOTAM FILE RPD.

RICE LAKE (T) VORW/DME 110.0 RPD Chan 37 N45°24.91′ W91°46.68′ 252° 26.5 NM to fld. 1092/1E.
OTS indef

AMERON NDB (MHW) 278 AHH N45°16.89' W92°22.28' at fld. NOTAM FILE GRB. Unusable byd 20 NM.

ANTIGO N45°09.52′ W89°06.83′ NOTAM FILE AIG.

NDB (MHW) 347 AIG at Langlade Co. Unusable beyond 18 NM.

GREEN BAY L-14J

GREEN RAY

1 - 141

ANTIGO

LANGLADE CO (AIG) 2 NE UTC-6(-5DT) N45°09.25′ W89°06.64′

1521 B S2 **FUEL** 100LL, JET A NOTAM FILE AIG

RWY 16-34: H4001X75 (ASPH-AFSC) S-21 MIRL

RWY 16: REIL. PAPI(P2R)—GA 3.0° TCH 26'. Trees.

RWY 34: REIL. PAPI(P2L)—GA 3.0° TCH 39'. Trees.

RWY 08–26: H3400X75 (ASPH-AFSC) S-12.5 MIRL

RWY 08: PAPI(P2L)—GA 3.0° TCH 25'. Trees.

RWY 26: PAPI(P2R)—GA 3.0° TCH 28'. Road.

AIRPORT REMARKS: Attended May-Sep 1400-0200Z‡, Oct-Apr 1400-2300Z‡. MIRL Rwy 16-34 preset on low ints; to increase ints and ACTIVATE MIRL Rwy 08-26; REIL Rwys 16 and 34; PAPI Rwy 08; Rwy 26 and Rwy 16 and Rwy 34—CTAF.

WEATHER DATA SOURCES: AWOS-3 119.075 (715) 627-2869.

COMMUNICATIONS: CTAF/UNICOM 122.8

R MINNEAPOLIS CENTER APP/DEP CON 124.4

RADIO AIDS TO NAVIGATION: NOTAM FILE AUW.

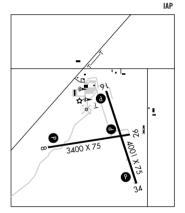
WAUSAU (L) VORTACW 111.6 AUW Chan 53 N44°50.81′

W89°35.19′ 046° 27.4 NM to fld. 1205/2E.

ANTIGO NDB (MHW) 347 AIG N45°09.52′ W89°06.83′ at fld

NOTAM FILE AIG.

Unusable beyond 18 NM.



APPLETON

OUTAGAMIE CO RGNL (ATW) 3 W UTC-6(-5DT) N44°15.49′ W88°31.15′

918 B S4 **FUEL** 100LL, JET A1 +, MOGAS OX 1, 2 Class I, ARFF Index B NOTAM FILE ATW

GREEN BAY H-2J, L-28H IAP, AD

RWY 03-21: H8002X150 (CONC-GRVD) S-75, D-160, ST-175, DT-320 HIRL

RWY 03: MALSR. PAPI(P4L)—GA 3.0° TCH 47'. Tree. RWY 21: REIL. PAPI(P4L)—GA 3.0° TCH 47'. Tree.

RWY 11-29: H6501X150 (CONC-GRVD). S-75, D-160, ST-175,

WY 11-29: H6501X150 (CONC-GRVD). S-75, D-160, ST-175 DT-320 HIRL 0.9% up NW

RWY 11: REIL. VASI(V4L)—GA 3.0° TCH 35'. Tree.

RWY 29: MALSR. PAPI(P4L)—GA 3.0' TCH 61'.

	J	
LANDING	HOLD SHORT POINT	DIST AVBI
RWY 03	11-29	3300
RWY 21	11-29	4100
RWY 29	03-21	3400

RUNWAY DECLARED DISTANCE INFORMATION

 RWY 03:
 TORA 8002
 TODA 8002
 ASDA 8002
 LDA 8002

 RWY 11:
 TORA 6501
 TODA 6501
 ASDA 6501
 LDA 6501

 RWY 29:
 TORA 6501
 TODA 6501
 ASDA 6501
 LDA 6501

 RWY 29:
 TORA 6501
 TODA 6501
 ASDA 6501
 LDA 6501

RWY 29: TORA 6501 TODA 6501 ASDA 6501 LDA 6501

AIRPORT REMARKS: Attended continuously. Birds and migratory waterfowl on and invof arpt. Snow removal ops in progress winter months. Vehicle operators will be monitoring CTAF; acft ldg/dep Appleton should use CTAF when twr clsd. Rwy 03 touchdown RVR avbl. When twr clsd HIRL Rwy 03–21 preset on low ints, to increase ints and ACTIVATE HIRL Rwy 11–29; MALSR Rwy 03 and Rwy 29; REIL Rwy 11 and Rwy 21—CTAF. PAPI Rwy 03, Rwy 21 and Rwy 29 and VASI Rwy 11 opr 24 hrs. Rwy 21 PAPI rstd byd 8.5° right of course.

WEATHER DATA SOURCES: AWOS-3 (920) 832–2597. LAWRS.

COMMUNICATIONS: CTAF 119.6 ATIS 127.15 Unicom 122.95

R GREEN BAY APP/DEP CON 126.3 (1130-0530Z‡)

R MINNEAPOLIS CENTER APP/DEP CON 126.3 (0530-1130Z‡)

APPLETON TOWER 119.6 (1130-0500Z‡) GND CON 121.7 AIRSPACE: CLASS D svc 1130-0500Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE OSH.

OSHKOSH (L) VORTAC 111.8 OSH Chan 55 N43°59.43′ W88°33.36′ 004° 16.1 NM to fld. 780/2E.

KOOKY NDB (MHW/LOM) 407 AQ N44°12.95′ W88°23.94′ 298° 5.8 NM to fld. NOTAM FILE ATW.

GAMIE NDB (LOM) 230 AT N44°09.75′ W88°35.10′ 028° 6.4 NM to fld.

ILS/DME 109.1 I-ATW Chan 28 Rwy 03. Class 1C. LOM GAMIE NDB.

ILS/DME 109.7 I-AQZ Chan 34 Rwy 29. Class IT. LOM KOOKY NDB ILS/DME unmonitored.

 $\textbf{COMM/NAV/WEATHER REMARKS:} \ \text{Rwy 03. LOC/GS unmonitored when twr clsd. LOM unmonitored.}$

ARBOR VITAE N45°55.57′ W89°43.76′ NOTAM FILE ARV.

NDB (MHW) 221 ARV at Lakeland/Noble F. Lee Memi Fid.

GREEN BAY L-14J GREEN BAY

GREEN BAY

L-141

ARSHA N45°37.69′ W89°37.13′ NOTAM FILE RHI.

NDB (LOM) 272 RH 087° 6.4 NM to Rhinelander-Oneida Co.

ASHLAND N46°32.96′ W90°55.04′ NOTAM FILE ASX.

(T) VORW/DME 110.2 ASX Chan 39 at John F. Kennedy Meml.

820/2E. Unmonitored 0000-1200Z‡.

RCO 122.25 (GREEN BAY RADIO)



EC, 17 DEC 2009 to 11 FEB 2010

ASHLAND

JOHN F KENNEDY MEML (ASX) 2 SW UTC-6(-5DT) N46°32.91′ W90°55.14′

827 B S2 FUEL 100LL, JET A. A1+ NOTAM FILE ASX

RWY 02-20: H5197X100 (ASPH) S-42, D-52 MIRL

RWY 02: REIL. PAPI(P4L)-GA 3.0° TCH 41'. Trees.

RWY 20: PAPI(P4L)-GA 3.0° TCH 34'. Trees.

RWY 13-31: H3498X75 (ASPH) S-40, D-50 MIRL 0.4% up NW RWY 31: PAPI(P2L)-GA 3.0° TCH 37'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400-2200Z±. For svc after hrs call 715-292-7070. Jet A1+ PPR ctc arpt manager

715-682-7070, after hrs call 715-292-7070. 24 hr self serve 100LL. Deer and other wildlife on and invof arpt. Heavy bird activity spring and summer months. Ultralight activity on and invof arpt. Snow removal ops winter months. Acft over 4000 lbs must stop or park on conc if able. Terminal building open May-Oct 1200-02007± and Nov-Apr 1400-22007±, ACTIVATE MIRL Rwy 13-31 and Rwy 02-20, REIL Rwy 02 and PAPI Rwy 02, Rwy 20 and Rwv 31-CTAF.

WEATHER DATA SOURCES: ASOS 126,775 (715) 682-5541.

COMMUNICATIONS: CTAF/UNICOM 122.8

ASHLAND RCO 122.25 (GREEN BAY RADIO)

(R) MINNEAPOLIS CENTER APP/DEP CON 126.45

RADIO AIDS TO NAVIGATION: NOTAM FILE ASX.

ASHLAND (T) VORW/DME 110.2 ASX Chan 39 N46°32.96′ W90°55.04′ at fld. 820/2E. Unmonitored 0000-1200Z±.

KENNEDY NDB (MHW) 254 ENY N46°33.18′ W90°54.87′ at fld. Unmonitored 0000-1200Z‡.

ILS/DME 109.3 I-ASX Chan 30 Rwy 02. LOC only.

AUSTIN STRAUBEL INTL. (See GREEN BAY)

BADGER N43°07.01′ W88°17.06′ NOTAM FILE MKE.

CHICAGO H-5E, L-28H

GREEN RAY

H-2J, L-14I

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ΙΔΡ

(H) VORTACW 116.4 BAE Chan 111 153° 5 NM to Waukesha Co. 1080/2E. HIWAS. BARABOO WISCONSIN DELLS (DLL) 3 NW UTC-6(-5DT) N43°31.32′ W89°46.25′

CHICAGO L-28G

ΙΔΡ

979 B FUEL 100LL, JET A, MOGAS TPA-1979(1000) NOTAM FILE DLL RWY 01-19: H4800X75 (ASPH) S-19, D-30 HIRL

RWY 19: REIL. PAPI(P2L)-GA 3.0 TCH 26. Trees. RWY 01: REIL. Trees.

RWY 14-32: 2708X100 (TURF) RWY 32: Trees. RWY 14. Pole

AIRPORT REMARKS: Attended May-Sep 1400-0200Z‡, Oct-Apr 1400-2300Z‡. Rwy 14-32 not plowed and CLOSED Nov 15 thru Apr 15. Confirm rwy open with arpt manager 608-356-2270. Birds on and invof arpt in fall. HIRL Rwy 01-19 preset on low ints; to increase ints and ACTIVATE REIL Rwy 01 and Rwy 19-CTAF. Rwy 14-32 ends marked by vellow and black A-frames.

WEATHER DATA SOURCES: AWOS-3 118.325 (608) 356-1071

COMMUNICATIONS: CTAF/UNICOM 123.05

DELLS RCO 122.1R 117.0T (GREEN BAY RADIO)

- R MADISON APP/DEP CON 135.45 (1200-0500Z‡)
- (R) CHICAGO CENTER APP/DEP CON 133.3 (0500-1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE DLL.

DELLS (H) VORTAC 117.0 DLL Chan 117 N43°33.05′ W89°45.82′ 187° 1.8 NM to fld. 1020/3E.

BARRON MUNI (9Y7) 0 NE UTC-6(-5DT) N45°24.45′ W91°50.06′

GREEN BAY

1113 TPA-2113(1000) NOTAM FILE GRB

RWY 09-27: 2010X260 (TURF)

RWY 09: Tree. RWY 27: Road.

AIRPORT REMARKS: Attended irregularly. For sycs call arpt manager 715-635-6735 or 715-790-3071, Rwy 09-27 N half plowed; S half skis only. Rwy 09-27 ends marked by yellow cones.

COMMUNICATIONS: CTAF 122.9

RICE LAKE RCO 122.3 (GREEN BAY RADIO)

BAYYE N44°40.59′ W89°38.88′ NOTAM FILE AUW.

NDB (LOM) 351 PH 353° 6.1 NM to Central Wisconsin. CREEN RAY

RFINIT (44C) 3 E UTC-6(-5DT) N42°29.87′ W88°58.06′ CHICAGO 817 B FUEL 100LL TPA-1517(700) NOTAM FILE GRB I-28H RWY 07-25: H3300X50 (ASPH) S-12.5 LIRL(NSTD) 0.4% up NE ΙΔΡ RWY 25: Thid dspicd 350'. Road. AIRPORT REMARKS: Attended dawn-dusk. Glider ops on and invof arpt. ACTIVATE NSTD LIRL Rwy 07-25—CTAF. Rotating bcn ops dusk-0500Z‡; other hrs by req, call arpt manager 608-365-2998. Rwy 07-25 NSTD LIRL 100' wide; 50' left and right of rwy centerline. Rwy 07 thld marking NSTD located 92' NE of pavement end. COMMUNICATIONS: CTAF/UNICOM 122.7 R ROCKFORD APP/DEP CON 121.0 RADIO AIDS TO NAVIGATION: NOTAM FILE FEP JANESVILLE (L) VOR/DME 114.3 JVL Chan 90 N42°33.48′ W89°06.32′ 118° 7.1 NM to fld. 931/3E. HIWAS BIG DOCTOR N45°49.28′ W92°21.99′ NOTAM FILE GRB GREEN BAY NDB (MHW) 203 BXR at Burnett Co. VFR only. BIG FOOT AIRFIELD (See WALWORTH) BLACKHAWK AIRFIELD (See MADISON) BLACK RIVER FALLS AREA (BCK) 3 S UTC-6(-5DT) N44°15.05′ W90°51.32′ **GREEN BAY** 836 B FUEL 100LL, JET A NOTAM FILE GRB 1-28G RWY 08-26: H4600X75 (ASPH) S-12 MIRL 0.3% up E ΙΔΡ RWY 08: REIL. PAPI(P2L)-GA 3.0° TCH 27'. Trees. RWY 26: PAPI(P2L)-GA 3.3° TCH 27'. Trees. AIRPORT REMARKS: Unattended, Fuel 24 hrs self serve, Ultralight activity on and invof arpt, Wildlife, birds on and invof arpt. MIRL Rwy 08-26 preset on low ints; to ACTIVATE higher ints and PAPI Rwy 08 and Rwy 26 and REIL Rwy O8-CTAF **COMMUNICATIONS: CTAF 122.9** RCO 122.5 (GREEN BAY RADIO) R MINNEAPOLIS CENTER APP/DEP CON 128.6 RADIO AIDS TO NAVIGATION: NOTAM FILE PNM. NODINE (H) VORTAC 117.9 ODI Chan 126 N43°54.74′ W91°28.05′ 051° 33.4 NM to fld. 1282/1E. NDB (MHW) 362 BCK N44°15.28′ W90°50.94′ at fld. NOTAM FILE GRB. NDB unusable byd 15 NM. BLOYER FLD (See TOMAH) **BONG** N46°41.48′ W92°06.21′ NOTAM FILE SUW. **GREEN BAY** NDB (MHW) 260 SUW at Richard I Bong. 1-141 **BOSCOBEL** (OVS) 2 NE UTC-6(-5DT) N43°09.65′ W90°40.44′ CHICAGO 673 B S3 FUEL 100LL TPA-1503(830) NOTAM FILE OVS H-5D, L-28G RWY 07-25: H5000X75 (ASPH) S-12.5 D-30 MIRL IAP RWY 07: REIL. PAPI(P2L)—GA 3.0° TCH 38'. Trees. RWY 25: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Trees. RWY 02-20: H3658X58 (ASPH) S-12.5 MIRL RWY N2. Trees RWY 20. Trees AIRPORT REMARKS: Attended dawn-dusk. MIRL Rwy 07-25 preset on low ints, to increase ints and ACTIVATE MIRL Rwy 02-20 and REIL Rwy 07-25-CTAF. WEATHER DATA SOURCES: ASOS 126.775 (608) 375-2712. COMMUNICATIONS: CTAF/UNICOM 122.8 R CHICAGO CENTER APP/DEP CON 133.3 GCO 121.725 (FLIGHT SERVICES) RADIO AIDS TO NAVIGATION: NOTAM FILE LNR. LONE ROCK (L) VORW/DME 112.8 LNR Chan 75 N43°17.66′ W90°07.99′ 252° 25 NM to fld. 1184/OE. 2AWIH **BOULDER JUNCTION** (BDJ) 2 N UTC-6(-5DT) N46°08.25′ W89°38.76′ GREEN BAY 1666 TPA-2666(1000) NOTAM FILE GRB RWY 05-23: 3170X165 (TURF) RWY 05: Tree RWY 23: Trees RWY 16-34: 2540X160 (TURF) RWY 34: Trees

AIRPORT REMARKS: Unattended May-Nov, Arpt CLOSED Dec-Apr, Rwy 05 all rwys marked with yellow A-frames.

COMMUNICATIONS: CTAF 122.9

BOYCEVILLE MUNI (3T3) 0 SE UTC-6(-5DT) N45°02.64′ W92°01.22′

967 B S3 **FUEL** 100LL TPA—1967(1000) NOTAM FILE GRB

RWY 08–26: H3300X60 (ASPH) MIRL 0.5% up E

RWY 08: PAPI(P2L)—GA 3.0° TCH 28'. Tree. RWY 26: REIL. PAPI(P2L)—GA 3.0° TCH 23'.

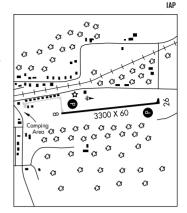
AIRPORT REMARKS: Unattended. Fuel svc unavbl. Crane 160' 2.1 NM east 1300–23592‡ daily. Deer on and invof arpt, primarily after dusk. ACTIVATE MIRL Rwy 08–26, PAPI Rwys 08 and 26 and REIL Rwy 26—122.8.

COMMUNICATIONS: CTAF/UNICOM 122.8.

MINNEAPOLIS CENTER APP/DEP CON 125.3

RADIO AIDS TO NAVIGATION: NOTAM FILE EAU.

EAU CLAIRE (L) VORTACW 112.9 EAU Chan 76 N44°53.86′ W91°28.71′ 287° 24.7 NM to fld. 804/4E. **HIWAS**.



BRENNAND (See NEENAH)

BRODHEAD (C37) 2 S UTC-6(-5DT) N42°35.50′ W89°22.51′

CHICAGO

GREEN BAY

1-141

793 NOTAM FILE GRB

RWY 09-27: 2430X155 (TURF) LIRL (NSTD)

RWY 09: Tree. RWY 27: Trees.

RWY 03-21: 1480X100 (TURF)

RWY 03: Trees. RWY 21: Road.

RWY 15-33: 1380X100 (TURF)

RWY 15: Trees. RWY 33: Trees.

AIRPORT REMARKS: Unattended. Rwys not plowed winters, open to ski acft. Rwy 09–27 east 1200' soft and rough. Rwy 09–27 and Rwy 15 marked by orange and yellow half barrels. Rwy 03–21 marked by half barrels. Rwy 33 marked with concrete pad. ACTIVATE LIRL Rwy 09–27—CTAF.

COMMUNICATIONS: CTAF 122.9

BROOKFIELD

CAPITOL (Ø2C) 3 E UTC-6(-5DT) N43°05.25′ W88°10.67′

CHICAGO L-28H, A

850 B S4 FUEL 100LL, MOGAS TPA-1850 (1000) NOTAM FILE GRB

RWY 03-21: H3501X44 (ASPH) MIRL (NSTD)

RWY 03: TRCV(TRIL). Thid dsplcd 500'. Road.

RWY 21: REIL (NSTD). TRCV(TRIL). Thid dsplcd 195'. Trees.

RWY 09-27: 3395X100 (TURF)

RWY 09: Tree. RWY 27: Trees.

RWY 18-36: 1600X80 (TURF)

RWY 18: Brush. RWY 36: Tree.

AIRPORT REMARKS: Attended Apr–Oct 1400Z‡–dusk, Nov–Mar 1400–0000Z‡. Rwys 03 and 36 acft ops cannot see Rwy 27 acft ops. Be alert: constant mowing ops on and invof rwys and adjacent areas. Intensive flight training powered acft. Rwy 09–27 and Rwy 18–36 open for ski equipped acft 1 Dec thru 15 Apr. Rwys 09–27 and 18–36 not sanded or plowed. Confirm conditions and snow removal for Rwy 03–21 with arpt manager 262–781–4213. Rwy 21 NSTD REIL, strobes mounted on standard edge lighting poles. Rwy 03–21 NSTD MIRL OTS indef. ACTIVATE NSTD MIRL Rwy 03–21 and VASI Rwys 03 and 21—CTAF. Rwy 03–21 NSTD MIRL; Rwy 03 first 500′ unlighted. Rwy 09–27 and Rwy 18–36 ends marked with orange and white A–frames.

COMMUNICATIONS: CTAF/UNICOM 122.7

RADIO AIDS TO NAVIGATION: NOTAM FILE MKE

BADGER (H) VORTACW 116.4 BAE Chan 111 N43°07.01′ W88°17.06′ 109° 5 NM to fld. 1080/2E. HIWAS.

BURBUN N42°41.36′ W88°18.11′ NOTAM FILE GRB.

(T) VORW/DME 114.5 BUU Chan 92 at Burlington Muni. 780/1W. AWOS-3.

CHICAGO L-28H, A

281

BURLINGTON MUNI (BUU) 1 NW UTC-6(-5DT) N42°41.44′ W88°18.28′ CHICAGO 779 B S4 FUEL 100LL, JET A OX 4 NOTAM FILE BUU L-28H. A RWY 11-29: H4300X75 (ASPH) S-20 MIRL ΙΔΡ RWY 11: REIL. PAPI(P2L)-GA 3.15° TCH 33'. Tree. RWY 29: REIL. VASI(V2L)-GA 3.0° TCH 36'. Tree. Rgt tfc. RWY 01-19: 2477X130 (TURF) RWY 01. Trees RWY 19: Road. Rgt tfc. AIRPORT REMARKS: Attended 1400Z‡-dusk. Fuel 24 hr self svc. Waterfowl on and invof arpt. Tfc departing Rwy 11 avoid overflight of city. ACTIVATE MIRL Rwy 11-29; VASI Rwy 29 and PAPI Rwy 11 and REIL Rwys 11 and 29—CTAF, Asph twy 30' wide, except W 700' 35' wide, Rwy 01-19 marked with yellow/black wooden panels, WEATHER DATA SOURCES: AWOS-3 BUU 114.5 (262) 757-0907. COMMUNICATIONS: CTAF/UNICOM 123.05 R MILWAUKEE APP/DEP CON 125.35 GCO 121.725 (FLIGHT SERVICES) RADIO AIDS TO NAVIGATION: NOTAM FILE MKE. BADGER (H) VORTACW 116.4 BAE Chan 111 N43°07.01′ W88°17.06′ 180° 25.6 NM to fld. 1080/2E. BURBUN (T) VORW/DME 114.5 BUU Chan 92 N42°41.36′ W88°18.11′ at fld. 780/1W. AWOS-3. NOTAM FILE GRR BURNETT CO (See SIREN) CABLE UNION (3CU) 2 SE UTC-6(-5DT) N46°11.66′ W91°14.79′ GREEN BAY 1360 B FUEL 100LL NOTAM FILE GRB 1-141 RWY 16-34: H3709X75 (ASPH) S-28 LIRL 0.4% up S ΙΔΡ RWY 34: Trees. RWY 16: REIL. Tree. RWY 08-26: 2840X200 (TURF) RWY 26: Thid dspicd 400'. Trees. RWY 08: Thid dspicd 400'. Trees. AIRPORT REMARKS: Unattended. For arpt manager after hrs call 715-794-2493. Rwy 08-26 CLOSED Nov 21-May 1. Rwy 08-26 marked with orange/white wooden A-frames. No heating units to start acft. COMMUNICATIONS: CTAF/UNICOM 122.8 HAYWARD RCO 122.1R 113.4T (GREEN BAY RADIO) MINNEAPOLIS CENTER APP/DEP CON 126.45 RADIO AIDS TO NAVIGATION: NOTAM FILE HYR. HAYWARD (L) VOR/DME 113.4 HYR Chan 81 N46°01.14′ W91°26.78′ 035° 13.4 NM to fld. 1208/3E. VOR portion unusable blo 10000'. SEELEY NDB (MHW) 344 SLY N46°06.73' W91°23.08' 048° 7.6 NM to fld. NOTAM FILE GRB. NDB unusable byd 15 NM. **CALIN** N44°34.15′ W90°09.06′ NOTAM FILE MFI. **GREEN BAY** NDB (LOM) 266 DU 338° 4.4 NM to Marshfield Muni. CAMP LAKE (49C) 1 W UTC-6(-5DT) N42°32.00′ W88°09.51′ CHICAGO S4 TPA-1355(600) NOTAM FILE GRB 755 RWY 18-36: 2250X75 (TURF) RWY 36: Trees. Rgt tfc. RWY 18: Building. AIRPORT REMARKS: Attended Mon-Sat 1500-0400Z‡. Ultralight activity on and invof arpt. Deer activity on and invof arpt. Arpt not plowed; confirm conditions with arpt manager 262-889-8187. COMMUNICATIONS: CTAF 122.9 CAPITOL (See BROOKFIELD) **CAPPY** N42°50.38′ W87°54.78′ NOTAM FILE MKE. CHICAGO NDB (LOM) 410 MK 008° 6.5 NM to General Mitchell Intl.

CARTER (See PULASKI)

CASSVILLE MUNI (C74) 1 SE UTC-6(-5DT) N42°42.25′ W90°57.88′

627 NOTAM FILE GRB RWY 11-29: H3000X50 (A: RWY 11: Tree. Rgt tfc.

RWY 11-29: H3000X50 (ASPH) S-21, D-40 LIRL

RWY 29: Thid dsplcd 600'. Road.

 $\textbf{AIRPORT REMARKS:} \ Unattended. \ For \ winter \ condition \ and \ snow \ removal \ call \ arpt \ manager \ 608-725-5895. \ 1350'\ X20'$

twy W end Rwy 11.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE DBO.

DUBUQUE (H) VORTACW 115.8 DBO Chan 105 N42°24.09′ W90°42.54′ 324° 21.4 NM to fld. 1051/4E.

CENTRAL CO (See IOLA)

CENTRAL WISCONSIN (See MOSINEE)

CHETEK MUNI-SOUTHWORTH (Y23) 1 SE UTC-6(-5DT) N45°18.37′ W91°38.17′

1055 B S2 **FUEL** 80, 100LL TPA—2055(1000) NOTAM FILE GRB

GREEN BAY

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CHICAGO

1-28G

RWY 17-35: H3400X60 (ASPH) MIRL

RWY 17: REIL. PAPI(P2L)—GA 4.0° TCH 22'. Thid dsplcd 600'. Trees.

RWY 35: REIL. PAPI (P2L)-GA 3.0° TCH 29'. Road.

RWY 07-25: 1100X70 (TURF) 0.4% up E

RWY 07: Trees. RWY 25: Trees.

AIRPORT REMARKS: Unattended. 24 hr self svc fuel. Rwy 07–25 not plowed; Rwy CLOSED Nov 15 thru Apr 15. Rwy 17–35 may not be plowed for 24 to 48 hrs after heavy snow fall or drifting snow. Rwy 07–25 thlds marked by yellow cones. MIRL Rwy 17–35 preset on low ints, to increase ints and ACTIVATE PAPI and REIL Rwy 17 and Rwy 35—CTAF.

COMMUNICATIONS: CTAF 122.9

RICE LAKE RCO 122.3 (GREEN BAY RADIO)

MINNEAPOLIS CENTER APP/DEP CON 125.3

RADIO AIDS TO NAVIGATION: NOTAM FILE RPD.

RICE LAKE (T) VORW/DME 110.0 RPD Chan 37 N45°24.91′ W91°46.68′ 136° 8.9 NM to fld. 1092/1E. OTS indef

CHILTON

FLYING FEATHERS (11Y) 2 NW UTC-6(5DT) N44°03.67′ W88°11.70′ 940 NOTAM FILE GRB Not insp.

GREEN BAY

RWY 18-36: 1000X60 (TURF)

RWY 09-27: 500X20 (TURF)

AIRPORT REMARKS: Unattended. COMMUNICATIONS: CTAF 122.9

CHIPPEWA VALLEY RGNL (See EAU CLAIRE)

CINDY GUNTLY MEML (See FRANKSVILLE)

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CLINTONVILLE MUNI (CLI) 1 SE UTC-6(-5DT) N44°36.80′ W88°43.84′

822 B S4 **FUEL** 100LL, JET A NOTAM FILE CLI

GREEN BAY L-14J, 31A

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RWY 14-32: H4600X75 (ASPH) S-30, D-55 MIRL

RWY 14: Trees.

RWY 32: REIL. PAPI(P4L)—GA 3.0° TCH 26'. Tree.

RWY 04-22: H3300X100 (ASPH) S-40, D-70, ST-89

MIRL 0.4% up SW

RWY 04: Trees. RWY 22: Road.

RWY 09-27: 2000X170 (TURF)

RWY 09: Tree. RWY 27: Road.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z‡. Fuel: 24 hr self svc. Rwy 09-27 CLOSED from 1 Dec to 15 Apr, other times confirm condition with arpt manager at 715-823-7690. Deer, fox and birds on and invof arpt. 200' crane 6000' NW apch end Rwy 14. ACTIVATE MIRL Rwy 04-22 and Rwy 14-32 and REIL Rwy 32 and PAPI Rwy 32—CTAF. Rwy 09-27 thIds marked with white cones

WEATHER DATA SOURCES: AWOS-3 120.675 (715) 823-7691.

COMMUNICATIONS: CTAF/UNICOM 122.8

R GREEN BAY APP/DEP CON 126.3 (1130-0530Z‡)

R MINNEAPOLIS CENTER APP/DEP CON 125.55 (0530-1130Z‡)

GCO 121.725 (FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE GRB.

GREEN BAY (H) VORTACW 115.5 GRB Chan 102 N44°33.31′ W88°11.69′ 278° 23.2 NM to fld. 767/1E.

RAWIH

NDB (MHW) 209 CLI N44°37.13′ W88°43.99′ at fld. NOTAM FILE CLI.

CODEE N42°33.61′ W88°01.73′ NOTAM FILE ENW.

CHICAGO

NDB(LOM) 389 EN 066° 4.9 NM to Kenosha Rgnl.

CORNELL MUNI (2H3) 2 E UTC-6(-5DT) N45°09.93' W91°06.34'

GREEN BAY

1154 B S2 FUEL MOGAS NOTAM FILE GRB

RWY 09-27: H2420X45 (ASPH) LIRL (NSTD)

RWY 9: Road. RWY 27: Tree.

AIRPORT REMARKS: Attended 1400–2300Z‡. Confirm winter conditions and snow removal with arpt manager 715–239–3716. East 100' in poor condition; pavement cracked; heaving and grass growing in cracks. ACTIVATE NSTD LIRL Rwy 09–27 and rotating bcn—UNICOM. LIRL OTS indef.

COMMUNICATIONS: CTAF/UNICOM 122.8

CRANDON MUNI (Y55) 3 SW UTC-6(-5DT) N45°31.00′ W88°56.01′

GREEN BAY

1-141

1646 B NOTAM FILE GRB

RWY 11-29: H3100X75 (ASPH) S-12 LIRL

RWY 11: Trees. RWY 29: Road.

RWY 01-19: 2730X100 (TURF)

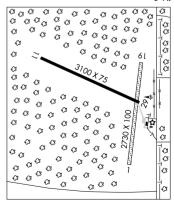
RWY 01: Road. RWY 19: Trees.

AIRPORT REMARKS: Unattended. Occasional deer on and invof arpt. LIRL Rwy 11–29 preset on low ints; to increase ints—CTAF. Rwy 01–19 marked by yellow cones.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE RHI.

RHINELANDER (L) VORTAC 109.2 RHI Chan 29 N45°38.03′ W89°27.47′ 105° 23.2 NM to fld. 1590/2E. HIWAS.



CRIVITZ MUNI (3D1) 3 SW UTC-6(-5DT) N45°12.85′ W88°04.37′

731 B NOTAM FILE GRB

RWY 18-36: H2620X60 (ASPH) S-12

RWY 18: Road. **RWY 36:** Road. **RWY 09–27:** 1270X80 (TURF) LIRL

RWY 09: Trees. RWY 27: Trees.

AIRPORT REMARKS: Unattended. Deer on and invof arpt. Rwy 09–27 not plowed. Confirm snow removal for Rwy 18–36 with arpt manager 715–854–7075. ACTIVATE LIRL Rwy 09–27 and rotating bcn–5 clicks on 123.0.

COMMUNICATIONS: CTAF/UNICOM 122.8

CUMBERLAND

CUMBERLAND MUNI (UBE) 3 SE UTC-6(-5DT) N45°30.36′ W91°58.87′

1241 B S4 FUEL 100LL, MOGAS NOTAM FILE GRB

RWY 09-27: H4050X75 (ASPH) MIRL

RWY 09: VASI(V2L)—GA 3.0° TCH 26'. Road.

RWY 27: REIL. VASI(V2L)—GA 3.0° TCH 29'. Road.

RWY 18-36: 2000X120 (TURF)

RWY 18: Road. RWY 36: Tree.

AIRPORT REMARKS: Unattended. 24 hr fuel avbl. Rwy 18–36 not plowed winter months. Rwy 18–36 marked with yellow cones. MIRL Rwy 09–27 preset on low ints to increase ints and ACTIVATE REIL Rwy 27—CTAF. VASI Rwy 27 opr 24 hrs.

COMMUNICATIONS: CTAF/UNICOM 122.8

RICE LAKE RCO 122.3 (GREEN BAY RADIO)

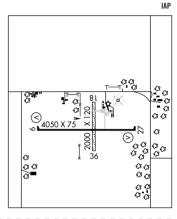
GCO 121.725 (FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE RPD.

RICE LAKE (T) VORW/DME 110.0 RPD Chan 37 N45°24.91′ W91°46.68′ 301° 10.2 NM to fld. 1092/1E. OTS indef.

NDB (MHW) 375 UBE N45°30.55′ W91°58.60′ at fld. NOTAM

FILE GRB. Unmonitored.



SILVER LAKE SPB (WN2) 5 NW UTC-6(-5DT) N45°35.07′ W91°55.55′

1248 NOTAM FILE GRB Not insp.

GREEN BAY

GREEN BAY

GREEN BAY

L-141

WATERWAY 18W-36W: 5000X200 (WATER)

SEAPLANE REMARKS: Unattended. No services avbl. Silver Lake may be frozen from Nov-Apr.

COMMUNICATIONS: CTAF 122.9

DANCI N44°45.62′ W89°47.35′ NOTAM FILE CWA.

GREEN BAY

NDB (LOM) 275 CW 079° 5.3 NM to Central Wisconsin.

DANE CO RGNL-TRUAX FLD (See MADISON)

DELAVAN

LAKE LAWN (C59) 2 E UTC-6(-5DT) N42°38.05′ W88°36.07′

981 B NOTAM FILE GRB

RWY 18-36: H4423X80 (ASPH) MIRL 0.3% up N

RWY 18: REIL. Thid dspicd 320'. Tree.

RWY 36: Thid dsplcd 300'. Tree.

AIRPORT REMARKS: Unattended. Arpt CLOSED for ngt ops. Rwy 18–36 CLOSED 15 Nov–31 Mar. Rwy 18–36 numerous large cracks and vegetation growing through pavement entire length. Low wing acft avoid south twy, 25' from twy centerline to 3' fence. Rwy 18–36 MIRL OTS indef. Rwy 18 REIL OTS indef.

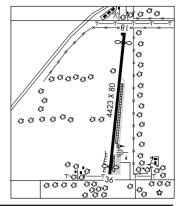
COMMUNICATIONS: CTAF 122.9

R ROCKFORD APP/DEP CON 121.0

RADIO AIDS TO NAVIGATION: NOTAM FILE FEP.

JANESVILLE (L) VOR/DME 114.3 JVL Chan 90 N42°33.48′ W89°06.32′ 075° 22.8 NM to fld. 931/3E. HIWAS.

NDB (MHW) 404 LVV N42°41.93′ W88°35.59′ 185° 3.9 NM to fld. NOTAM FILE GRB. OTS indef.



DELLS N43°33.05′ W89°45.82′ NOTAM FILE DLL.

(H) VORTAC 117.0 DLL Chan 117 187° 1.8 NM to Baraboo Wisconsin Dells. 1020/3E. RCO 122.1R 117.0T (GREEN BAY RADIO)

DEPRE N44°23.91′ W88°07.97′ NOTAM FILE GRB.

NDB (MHW/LOM) 332 SG 004° 5.2 NM to Austin Straubel Intl. LOM unmonitored.

CHICAGO L-31A

CHICAGO H-2J, 5D, L-28G

CHICAGO

L-28H

ΙΔΡ

DODGE CO (See JUNEAU)

DOOR CO CHERRYLAND (See STURGEON BAY)

DOUGY N45°50.07′ W89°43.83′ NOTAM FILE ARV.

NDB (MHW/LOM) 236 DO 001° 5.6 NM to Lakeland/Noble F. Lee Meml Fld. NDB unmonitored.

GREEN BAY L-14J

DRUMMOND

EAU CLAIRE LAKES (5G4) 10 W UTC-6(-5DT) N46°20.93′ W91°29.90′

GREEN BAY

1214 NOTAM FILE GRB

RWY 18-36: 2290X70 (TURF)

RWY 18: Trees. RWY 36: Fence.

AIRPORT REMARKS: Attended dalgt hrs. Arpt CLOSED to wheeled acft Nov 15 thru Mar 31. 62' antenna 150' right and 340' from thId Rwy 36. 10' depression 40'-400' from Rwy 36 thId 125' left. Rwy 18 end marked with tires. Rwy 36 end marked with silver/yellow A-frames, Rwy 18-36 marked with white reflectors along both edges.

COMMUNICATIONS: CTAF 122.9

286 MISCUNSIN

EAGLE RIVER UNION (EGV) 0 NW UTC-6(-5DT) N45°55.94′ W89°16.10′ GREEN BAY 1642 B S4 FUEL 100LL, JET A NOTAM FILE EGV H-21 I-141 RWY 04-22: H5000X76 (ASPH) S-12.5 MIRL RWY 04: REIL. PAPI(P4L). Trees. RWY 22: REIL. PAPI(P4L)-GA 3.0° TCH 34'. Pole. RWY 13-31: H3400X60 (ASPH) MIRL RWY 13. Tree RWY 31: Tree. AIRPORT REMARKS: Attended Jun-Aug 1500-0200Z‡, Sep-May 1500-2300Z‡. For attendant other hrs call 715-477-1548/479-4105/891-0987/891-5612. Ultralight activity on and invof arpt. REIL Rwy 22 OTS indef. ACTIVATE MIRL Rwy 04-22 and MIRL Rwy 13-31 and REIL Rwy 04 and Rwy 22 and twy lgts-CTAF. WEATHER DATA SOURCES: AWOS-3 118.325 (715) 479-1465. COMMUNICATIONS: CTAF/UNICOM 122.8 RHINELANDER RCO 122.1R 109.2T (GREEN BAY RADIO) R MINNEAPOLIS CENTER APP/DEP CON 133.65 GCO 121.725 (FLIGHT SERVICES) RADIO AIDS TO NAVIGATION: NOTAM FILE RHI. RHINELANDER (L) VORTAC 109.2 RHI Chan 29 N45°38.03′ W89°27.47′ 022° 19.6 NM to fld. 1590/02E. NDB (MHW) 341 EGV N45°55.96′ W89°15.79′ at fld. NOTAM FILE EGV. I-LBJ Chan 44 Rwy 04. LOC only. DME unusable byd 20° left of course. HELIPAD H1: 60X60 (CONC) HELIPORT REMARKS: Helipad H1 perimeter lgts.

EAST TROY MUNI (57C) 2 NE UTC-6(-5DT) N42°47.83′ W88°22.36′

860 B S4 FUEL 100LL, JET A, MOGAS NOTAM FILE GRB RWY 08-26: H3900X75 (ASPH) S-12 MIRL 0.4% up E

RWY 08: REIL. PAPI(P2L)-GA 3.0° TCH 43'. Road.

RWY 26: REIL. Trees.

RWY 18-36: 2446X75 (TURF) 0.4% up N RWY 36: Road. RWY 18. Tree

AIRPORT REMARKS: Attended 1430Z‡-dusk. After hrs svc call 262-642-2755 or 262-745-8706. Fuel avbl 24 hrs with credit card. Parachute Jumping. Rwy 18-36 be alert: not plowed 15 Oct-15 May. Ultralights activity on and invof arpt. Noise abatement procedures in effect; contact arpt manager at 262-642-4374. MIRL Rwy 08-26 is preset on low ints; to ACTIVATE higher ints and REIL Rwys 08 and 26 and PAPI Rwy 08-CTAF. Rwy 18-36 thlds marked with wooden A-frames in an L layout painted orange and white.

COMMUNICATIONS: CTAF/UNICOM 123.0

R MILWAUKEE APP/DEP CON 125.35

GCO 121.725 (MILWAUKEE CLNC and FLIGHT SERVICES) RADIO AIDS TO NAVIGATION: NOTAM FILE MKE

BADGER (H) VORTACW 116.4 BAE Chan 111 N43°07.01' W88°17.06′ 190° 19.6 NM to fld. 1080/2E. HIWAS.

2446 36

EAU CLAIRE N44°53.86′ W91°28.71′ NOTAM FILE EAU.

(L) VORTACW 112.9 EAU Chan 76 183° 2NM to Chippewa Valley Rgnl. 804/4E. HIWAS. DME unusable byd 30NM below 3500'.

RCO 123.6 122.65 (GREEN BAY RADIO)

GREEN BAY H-21, L-141

ΙΔΡ

CHICAGO

L-28H. A IAP

EC, 17 DEC 2009 to 11 FEB 2010

EAU CLAIRE

CHIPPEWA VALLEY RGNL (EAU) 3 N UTC-6(-5DT) N44°51.95′ W91°29.06′

913 B S4 **FUEL** 100LL, JET A OX 4 TPA—1913(1000) Class I, ARFF Index A NOTAM FILE EAU

GREEN BAY H-21, L-141 IAP, AD

RWY 04-22: H8101X150 (CONC-TRTD-RFSC) S-100, D-180, ST-175, DT-320 HIRL

RWY 04: REIL. PAPI(P4L)—GA 3.0° TCH 44'. Thid dsplcd 801'. Road.

RWY 22: MALSR. PAPI(P4L)—GA 3.0° TCH 50′. 0.6% down. **RWY 14–32:** H5000X100 (ASPH–CONC) S–40. D–60 MIRL

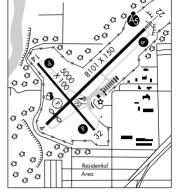
RWY 14: REIL. PAPI(P4L)—GA 3.0° TCH 43'. Trees.

RWY 32: PAPI(P4L)-GA 4.0° TCH 70'. Tree.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 04: TORA-8101 TODA-8101 ASDA-8101 LDA-7301 **RWY 22:** TORA-7301 TODA-7301 ASDA-7301 LDA-7301

ARPORT REMARKS: Attended 1300–0300Z‡. Arpt condition unmonitored 0500–1000Z‡. ARFF not avbl 24 hrs. PPR for unscheduled air carrier ops with more than 9 passenger seats; ctc arpt manager 715–839–6241. Air carrier ops with more than 9 passenger seats not authorized in excess of 15 minutes before or after scheduled arrival/dep times without PPR with arpt manager and confirmation ARFF is avbl prior to ldg or tkf. HIRL Rwy 04–22 preset on low ints, to incr ints and ACTIVATE MIRL Rwy 14–32, PAPI Rwy 14, Rwy 32, and Rwy 22, REIL Rwy 04 and Rwy 14, MALSR Rwy 22—CTAF.



WEATHER DATA SOURCES: ASOS 119.675 (715) 832-7990. HIWAS 112.9 EAU.

COMMUNICATIONS: CTAF 118.575 UNICOM 122.95

EAU CLAIRE RCO 123.6 122.65 (GREEN BAY RADIO)

MINNEAPOLIS CENTER APP CON 125.3

PAPI Rwy 04 on continuously.

TOWER 118.575 (1130-0230Z‡) GND CON 120.925

AIRSPACE: CLASS D svc 1130-0230Z‡ other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE EAU.

EAU CLAIRE (L) VORTACW 112.9 EAU Chan 76 N44°53.86′ W91°28.71′ 183° 1.9 NM to fld. 804/4E. HIWAS MAGGS NDB (LOM) 239 EA N44°56.69′ W91°22.42′ 224° 6.7 NM to fld. Unmonitored.

ILS/DME 109.5 I-EAU Chan 32 Rwy 22. LOM MAGGS NDB. BC unusable byd 10 NM blo 2500'.

EAU CLAIRE LAKES (See DRUMMOND)

EDGERTON

JANA (58C) 3 N UTC-6(-5DT) N42°52.37′ W89°04.54′

CHICAGO

842 FUEL 100LL NOTAM FILE GRB

RWY 18-36: 2305X135 (TURF) LIRL (NSTD)

RWY 18: Tree. RWY 36: Brush.

AIRPORT REMARKS: Attended irregularly. Parachute Jumping. Fee for acft ldg at arpt without gas purchase (maintenance fee). For NSTD LIRL Rwy 18–36 call 608–884–3403/3521. Rwy 18–36 NSTD LIRL with reflectors; orange reflectors indicating last 1000' of rwy both directions. Rwy 18–36 marked by pairs of red metal A–frames; ends of stopways marked with 3 red metal A–frames on centerline.

COMMUNICATIONS: CTAF 122.9

ELROY MUNI (6ØC) 2 S UTC-6(-5DT) N43°42.38′ W90°15.46′

CHICAGO

944 TPA—1744(800) NOTAM FILE GRB

RWY 06–24: 3085X100 (GRVL–TURF) LIRL (NSTD)

RWY 06: Trees. RWY 24: Tree. Rgt tfc.

AIRPORT REMARKS: Unattended. Rwy 06–24 2550' by 34' GRVL superimposed on turf rwy; surface patchy and rough. Tall bluffs and trees located on both sides of rwy. Rwy 06–24 NSTD LIRL thld Igts, all green lenses.

COMMUNICATIONS: CTAF 122.9

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EPHRAIM-FISH CREEK (3D2)
                               1 SW UTC-6(-5DT) N45°08.12' W87°11.15'
                                                                                                 GREEN BAY
  773 B S2 FUEL 100LL
                               NOTAM FILE GRR
                                                                                                    I-31B
  RWY 14-32: H2700X60 (ASPH) S-12.5 MIRL 0.5% up NE
                                                                                                       ΙΔΡ
    RWY 14: PAPI(P2L)—GA 3.5° TCH 24'. Trees.
                                                  RWY 32: PAPI(P2L)—GA 3.0° TCH 25'. Trees.
  RWY 01-19: 1980X80 (TURF)
    RWY N1. Trees
                        RWY 19: Trees.
  AIRPORT REMARKS: Attended on call. For fuel Mon-Fri 1600-2100Z‡ call 920-868-1714. Other hrs call
    920-495-0775/493-1714. Rwy 01-19 slopes immediately down to South-cannot see one end from the other.
    Rwy 14-32 400' turf twy on NE end. Rwy 01-19 ends and edges marked with yellow barrels. ACTIVATE MIRL Rwy
    14-32. PAPI Rwv 14 and Rwv 32-CTAF.
  COMMUNICATIONS: CTAF/UNICOM 123.0
                                                 RMINNEAPOLIS CENTER APP/DEP CON 127.65 (0530-1130Z‡)
 (R) GREEN BAY APP/DEP CON 119.5 (1130-0530Z‡)
  RADIO AIDS TO NAVIGATION: NOTAM FILE MNM.
    MENOMINEE (L) VOR DME 109.6 MNM
                                      CHAN 83 N45°10.81′ W87°38.83′ 098° 19.8 NM to fld. 650/00E.
FALLS N43°46.13′ W87°50.93′ NOTAM FILE SBM.
                                                                                                   CHICAGO
  (L) VOR/DME 110.0 FAH Chan 37
                                     at Shebovgan Co Meml, 744/2W.
                                                                                                    L-28H
     VOR unusable 018°-045° bvd 12 NM and 046°-017° bvd 31 NM blo 3000′.
       DME unusable 320°-340° bvd 25 NM blo 3000'.
  RC0 122.1R 110.0T (GREEN BAY RADIO)
FAMIS N44°26.43′ W88°14.38′ NOTAM FILE GRB.
                                                                                                 GREEN BAY
  NDB (LOM) 356 GR 063° 5.4 NM to Austin Straubel Intl. Unmonitored.
FICHY N44°45.36′ W87°26.95′ NOTAM FILE SUE.
                                                                                                 GREEN BAY
  NDB (LOM) 224 II 016° 5.4 NM to Door Co Cherryland. Unmonitored.
FOND DU LAC CO
                        1 W UTC-6(-5DT) N43°46.27' W88°29.31'
                                                                                                  CHICAGO
                 (FLD)
        B S4 FUEL 100LL, JET A1 TPA—1808(1000) NOTAM FILE FLD
                                                                                                H-2J. L-28H
  RWY 18-36: H5941X100 (ASPH) D-60 HIRL
                                                                                                       ΙΔΡ
    RWY 18: REIL, PAPI(P4L)—GA 3.0° TCH 48', Trees, Rgt tfc.
    RWY 36: MALSR, PAPI(P4L)-GA 3.0° TCH 33', Trees.
  RWY 09-27: H3602X75 (ASPH) S-22 MIRL
                                             0.6% un W
                              RWY 27: Road.
    RWY 09: Trees. Rgt tfc.
  AIRPORT REMARKS: Attended 1400Z‡-dusk. For attendant after hrs call 920-922-6000. Rwy 36 is for left tfc only.
    HIRL Rwy 18-36 preset on low ints; to incr ints and ACTIVATE MIRL Rwy 09-27, REIL Rwy 18; PAPI Rwy 18 and
    Rwv 36 and MALSR Rwv 36-CTAF.
  WEATHER DATA SOURCES: ASOS 134.0 (920) 922-4444.
  COMMUNICATIONS: CTAF/UNICOM 123.05
    RCO 122 5 (GREEN BAY RADIO)
 R MILWAUKEE APP/DEP CON 127.0
  RADIO AIDS TO NAVIGATION: NOTAM FILE OSH.
    OSHKOSH (L) VORTAC 111.8 OSH Chan 55 N43°59.43′ W88°33.36′ 165° 13.5 NM to fld. 780/2E.
    ILS/DME 108.3 I-FLD
                           Chan 20
                                       Rwy 36
                                               LOC only.
FORT ATKINSON MUNI (61C) 3 NE UTC-6(-5DT) N42°57.79′ W88°49.06′
                                                                                                   CHICAGO
  800 B FUEL 100LL TPA-1800(1000) NOTAM FILE GRB
                                                                                                    L-28H
  RWY 03-21: H3801X60 (ASPH) S-12 MIRL
                                                                                                       IAP
                     RWY 21: PAPI(P2L)-GA 3.0° TCH 30'. Tree.
    RWY 03: Trees.
  AIRPORT REMARKS: Unattended. Parachute Jumping. Fuel avbl PPR call 920-563-7760. Ultralight activity on and invof
    arpt. Rwy 03-21 pilots reg to fly rwy heading and climb to 1400' MSL before turning east. MIRL Rwy 03-21
    preset on low ints, to ACTIVATE higher ints and PAPI Rwy 21-CTAF.
  COMMUNICATIONS: CTAF 122.9
 R MADISON APP/DEP CON 120.1 (1200-0500Z‡)
R CHICAGO CENTER APP/DEP CON 133.3 (0500-1200Z‡).
  RADIO AIDS TO NAVIGATION: NOTAM FILE MKE.
    BADGER (H) VORTACW 116.4
                            BAE Chan 111 N43°07.01′ W88°17.06′ 247° 25.2 NM to fld. 1080/2E.
FOX RIVER
           (See ROCHESTER)
FRANKS SPB
             (See LAC DU FLAMBEAU)
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FRANKSVILLE

CINDY GUNTLY MEML (62C) 7 NW UTC-6(-5DT) N42°49.42′ W88°05.67′

790 S4 FUEL 100LL, MOGAS TPA-1790(1000) NOTAM FILE GRB

RWY 01-19: 2425X70 (TURF) LIRL (NSTD).

RWY 01: Tree. RWY 19: Tree.

RWY 18-36: 1200X80 (TURF)

RWY 18: Trees.

RWY 36: Tree.

AIRPORT REMARKS: Attended Mon-Fri 1430-0000Z‡, Sat 1700-0000Z‡. Rwy 18 and Rwy 19 ground drops off rapidly at S end, Rwv 18-36 rough and undulating rolling terrain, ACTIVATE NSTD LIRL Rwv 01-19-CTAF, Rwv 01-19 NSTD LIRL has two pairs of lgts each end.

COMMUNICATIONS: CTAF 122.9

FRIENDSHIP (ADAMS)

ADAMS CO LEGION FLD (63C) 1 E UTC-6(-5DT) N43°57.67′ W89°47.28′

CHICAGO L-28G

CHICAGO

976 B FUEL 100LL NOTAM FILE GRB

RWY 15-33: H3400X60 (ASPH) S-12.5 MIRL 0.3% up SE

RWY 15: REIL. PAPI(P2L). Trees.

RWY 33: REIL. PAPI(P2L). Trees.

RWY 08-26: 2825X100 (TURF)

RWY 08: Trees. RWY 26: Trees.

AIRPORT REMARKS: Unattended, Fuel avbl 24 hrs with credit card. Ultralight activity at arpt. Rwy 08-26 CLOSED Dec 1-Apr 1. Acft departing Rwy 15 turn to a heading of 180° after takeoff. Rwy 08-26 marked with 3' white cones. ACTIVATE MIRL Rwy 15-33 and REIL Rwy 15 and Rwy 33-CTAF.

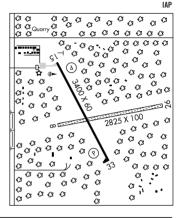
COMMUNICATIONS: CTAF 122.9

VOLK APP/DEP CON 135.25 (1300-2100Z‡)

CHICAGO CENTER/APP DEP CON 133.3 (2100-1300Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE DLL.

DELLS (H) VORTAC 117.0 DLL Chan 117 N43°33.05' W89°45.82'. 355° 24.6 NM to fld. 1020/3E.



GAMIE N44°09.75′ W88°35.10′ NOTAM FILE ATW. NDB (LOM) 230 AT 028° 6.4 NM to Outagamie Co. GREEN BAY

CHICAGO

GENERAL MITCHELL INTL (See MILWAUKEE)

GENOA CITY

VINCENT (64C) 3 NE UTC-6(-5DT) N42°31.10′ W88°18.02′

880 TPA-1680(800) NOTAM FILE GRB

RWY 09-27: 1775X130 (TURF)

RWY N9: Trees RWY 27. Road

AIRPORT REMARKS: Unattended. Rwy 09-27 W end rises +15'.

COMMUNICATIONS: CTAF/UNICOM 122.8

GILBERT FIELD (See RIO)

GRAND GENEVA RESORT (See LAKE GENEVA)

 GRANTSBURG MUNI (GTG) 2 NE UTC-6(-5DT) N45°47.88′ W92°39.86′
 GREEN BAY

 927 B TPA—1727(800) NOTAM FILE GRB
 L-14I

 RWY 05-23: 3315X120 (TURF)
 IAP

 RWY 05: Trees.
 RWY 23: Trees.

RWY 12-30: H3000X60 (ASPH) MIRL

RWY 30: Trees.

AIRPORT REMARKS: Unattended. Rwy 05–23 CLOSED Nov 1–Apr 15.

Deer and waterfowl on and invof arpt. ACTIVATE MIRL Rwy
12–30—CTAF. Water twr lctd 5060' southwest Rwy 05, 1100'
MSL/182'AGL. Rwy 05–23 marked by yellow cones.

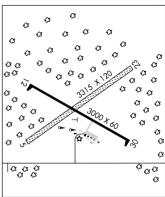
COMMUNICATIONS: CTAF 122.9

SIREN RCO 122.1R 109.4T (GREEN BAY RADIO)

MINNEAPOLIS CENTER APP/DEP CON 121.05

RADIO AIDS TO NAVIGATION: NOTAM FILE RZN.

SIREN (L) VOR/DME 109.4 RZN Chan 31 N45°49.23′ W92°22.47′ 262° 12.2 NM to fld. 987/2E. HIWAS.



GREEN BAY N44°33.31′ W88°11.69′ NOTAM FILE GRB.
(H) VORTACW 115.5 GRB Chan 102 146° 5.1 NM to
Austin Straubel Intl. 767/1E. HIWAS.

RCO 122.55 122.2 (GREEN BAY RADIO)

GREEN BAY H-2J, L-31A

GREEN BAY

AUSTIN STRAUBEL INTL (GRB) 7 SW UTC-6(-5DT) N44°29.08′ W88°07.78′
695 B S4 FUEL 100LL, JET A OX 1, 3 LRA ARFF Index—See Remarks
NOTAM FILE GRR

GREEN BAY H-2J, L-31A IAP, AD

RWY 18-36: H8701X150 (CONC-GRVD) S-95, D-165, ST-175, DT-275 HIRL

RWY 18: REIL. PAPI(P4R)—GA 3.0°TCH 54'. Thid dsplcd 499'. Road. Rgt tfc.

RWY 36: MALSR, PAPI(P4L)—GA 3.0° TCH 50'.

RWY 06–24: H7700X150 (CONC–GRVD) S–90, D–160, ST–175, DT–260 HIRL

RWY 06: MALSR. PAPI(P4L)-GA 3.0° TCH 38'.

RWY 24: PAPI(P4L)—GA 3.0° TCH 50'. Tower.

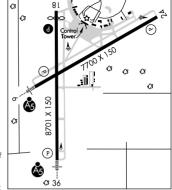
LAND AND HOLD SHORT OPERATIONS

LANDING	HOLD SHORT POINT	DIST AVBI
RWY 18	06-24	2692
RWY 24	18-36	6050
RWY 36	06-24	4932

RUNWAY DECLARED DISTANCE INFORMATION

RWY 18: TORA-8701 TODA-8701 ASDA-8701 LDA-8201 RWY 36: TORA-8201 TODA-8201 ASDA-8201 LDA-8701

AIRPORT REMARKS: Attended 1100–0400Z‡. Deer and birds on and invof arpt. Request voluntary compliance in avoiding noise sensitive areas N and E of arpt between midnight and 6 a.m. Rwy 18 touch and go tfc to use rgt tfc during hrs when twr clsd. Twys N and E not



avbl for air carrier ops with more than 30 passenger seats. Class I, ARFF Index C. ARFF index D available with prior permission call arpt manager at 920–498–4820. Rwy 06 touchdown runway visual range avbl. Rwy 36 touchdown runway visual range avbl. When twr is clsd the preferred rwy is preset on low or med ints; to increase ints and ACTIVATE HIRL Rwy 06–24 and Rwy 18–36; MALSR Rwy 06, Rwy 36, REIL Rwy 18 and PAPI Rwy 18—CTAF. Flight Notification Service (ADCUS) available.

WEATHER DATA SOURCES: ASOS (920) 494-7140. HIWAS 115.5 GRB. LLWAS.

COMMUNICATIONS: CTAF 118.7 ATIS 124.1 UNICOM 122.95

GREEN BAY RCO 122.55 122.2 (GREEN BAY RADIO)

(R) GREEN BAY APP CON 119.4 (1130-0530Z‡) (R) GREEN BAY DEP CON 126.55 (1130-0530Z‡)

R MINNEAPOLIS CENTER APP/DEP CON 125.55 (0530-1130Z‡)

GREEN BAY TOWER 118.7 (1130-0530Z‡) $\;$ GND CON 121.9 $\;$ CLNC DEL 121.75

AIRSPACE: CLASS C svc 1130-0530Z‡ ctc APP CON other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE GRB. VHF/DF ctc GREEN BAY RADIO.

GREEN BAY (H) VORTACW 115.5 GRB Chan 102 N44°33.31′ W88°11.69′ 146° 5.1 NM to fld. 767/1E. HIWAS.

FAMIS NDB (LOM) 356 GR N44°26.43′ W88°14.38′ 063° 5.4 NM to fld. LOM unmonitored.

DEPRE NDB (MHW/LOM) 332 SG N44°23.91′ W88°07.97′ 004° 5.2 NM to fld. LOM unmonitored.

ASR (1130-1730Z‡)

GIITZMER'S TWIN OAKS (See WHITEWATER)

HAHN SKY RANCH (See WEST BEND)

HARTFORD MUNI (HXF) 2 NW UTC-6(-5DT) N43°20.95′ W88°23.48′

CHICAGO L-28H

1069 B S4 **FUEL** 100LL, MOGAS TPA—See Remarks NOTAM FILE GRB

L-28H IAP

RWY 11-29: H3000X75 (ASPH) S-8 MIRL

RWY 11: Road. Rwy 29: Trees.

RWY 18-36: 2259X215 (TURF)

RWY 18: Road.

AIRPORT REMARKS: Unattended. Glider and ultralight activity on arpt. Slight downhill slope Idg Rwy 18. Rwy 36 +78' water twr 3885' from apch end. TPA for ultralight acft 1569(500). Rgt tfc pattern ultralight and glider acft. Rwy 18–36 thId marked with orange and white wooden A–frames.

COMMUNICATIONS: CTAF/UNICOM 123.0

R MILWAUKEE APP/DEP CON 125.35

RADIO AIDS TO NAVIGATION: NOTAM FILE MKE.

BADGER (H) VORTACW 116.4 BAE Chan 111 N43°07.01′ W88°17.06′ 339° 14.7 NM to fld. 1080/2E.
HIWAS

WEST BEND (T) VOR 109.8 BJB N43°25.32′ W88°07.52′ 251° 12.4 NM to fld. NOTAM FILE ETB. NDB (MHW) 200 HXF N43°20.86′ W86°23.71′ at fld.

NOTAM FILE HYR.

at Sawyer Co. 1208/3E.

VOR portion unusable blo 10000'. DME portion unusable; 160°-050° blo 4000' byd 20 NM; 051°-160° blo

ASOS

GREEN BAY

HAYWARD N46°01.14′ W91°26.78′

(L) VOR/DME 113.4 HYR Chan 81

9000' bvd 13 NM RCO 122.1R 113.4T (GREEN BAY RADIO) HAYWARD SAWYER CO (HYR) 2 NE UTC-6(-5DT) N46°01.52′ W91°26.66′ **GREEN BAY** B FUEL 100LL, JET A NOTAM FILE HYR H-21, L-141 RWY 02-20: H5002X100 (ASPH) S-40, D-65, ST-82 MIRL IAP RWY 20: REIL. PAPI(P4L), GA 3.0° TCH 36', Trees. RWY 02: REIL PAPI (P41)—GA 3 0° TCH 38' Road RWY 16-34: 1090X110 (TURF) RWY 16: Trees RWY 34: Trees AIRPORT REMARKS: Attended Jun-Sep Mon-Sat 1300-0100Z‡, Sun 1400-0100Z‡, Oct-May Mon-Sat 1300-2300Z‡, Sun 1400-0100Z‡. Rwy 16-34 CLOSED Dec 1 thru Apr 15. Deer on and invof arpt. ACTIVATE MIRL Rwy 02-20, PAPI Rwys 02, 20, REIL Rwy 02 and 20—CTAF. Rwy 20 PAPI OTS indef. Rwy 16-34 thids marked with orange steel A-frames WEATHER DATA SOURCES: ASOS 113.4 HYR (715) 634-6138. COMMUNICATIONS: CTAF/UNICOM 122.8 HAYWARD RCO 122.1R 113.4T (GREEN BAY RADIO) MINNEAPOLIS CENTER APP/DEP CON 126 45 RADIO AIDS TO NAVIGATION: NOTAM FILE HYR. HAYWARD (L) VOR/DME 113.4 HYR Chan 81 N46°01.14′ W91°26.78′ at fld. 1208/3E. ASOS. SEELEY NDB (MHW) 344 SLY N46°06.73' W91°23.08' 205° 5.8 NM to fld. NOTAM FILE GRB. NDB unusable beyond 15 NM. ILS/DME 108.5 I-HTY Chan 22 Rwy 20. LOC only. HILLSBORO JOSHUA SANFORD FLD (HBW) 1 NE UTC-6(-5DT) N43°39.40′ W90°19.69′ CHICAGO 938 NOTAM FILE GRB L-28G RWY 05-23: H3070X46 (ASPH) LIRL (NSTD) RWY 05: Thid dspicd 733'. Fence. RWY 23: Trees. AIRPORT REMARKS: Unattended. Birds on and invof arpt. Rwy 05 thld lgts black (obscured) and green. Rwy 23 thld lgts located 245' from relocated thid. ACTIVATE LIRL Rwy 05-23-CTAF. COMMUNICATIONS: CTAF 122 9 CHICAGO CENTER APP/DEP CON 133 3 RADIO AIDS TO NAVIGATION: NOTAM FILE GRB. LONE ROCK (L) VORW/DME 112.8 LNR Chan 75 N43°17.66′ W90°07.99′ 339° 23.3 NM to fld. HORLICK N42°45.73′ W87°48.88′ NOTAM FILE RAC. CHICAGO (T) VORW/DME 117.7 HRK Chan 124 HRK at John H. Batten. 669/2W. ASOS L-28H. A VOR portion unusable 090°-213°. IOLA CENTRAL CO (68C) 4 E UTC-6(-5DT) N44°30.33′ W89°01.51′ GREEN BAY TPA—1876(1000) NOTAM FILE GRB 876 S4 RWY 04-22: 2530X60 (TURF) RWY N4. Trees RWY 22: Tree. RWY 09-27: 1800X120 (TURF) RWY N9: Trees RWY 27. Tree RWY 13-31: 1745X130 (TURF) RWY 13: Trees. RWY 31: Trees. AIRPORT REMARKS: Unattended. Arpt CLOSED to wheeled acft when rwys covered with snow or ice. Ski tfc use Rwy 04-22 only. Deer on and invof arpt. Rwy 04-22 marked with yellow barrels. Rwy 09-27 marked with yellow cones. Rwy 13-31 marked with yellow barrels. **COMMUNICATIONS: CTAF 122.9** IOWA COUNTY (See MINERAL POINT) J. DOUGLAS BAKE MEML (See OCONTO) JANA (See EDGERTON)

JANESVILLE N42°33.48′ W89°06.32′ NOTAM FILE FEP.

(L) VOR/DME 114.3 JVL Chan 90 035° 4.7 NM to Southern Wisconsin Rgnl. 931/3E. HIWAS VOR portion unusable 025° 060° byd 25 NM blo 4000′, 130°–150° byd 30 NM blo 4000′. DME unusable 130°–150° byd 30 NM blo 4000′.

RCO 122.1R 114.3T (GREEN BAY RADIO)

JANESVILLE

 SOUTHERN WISCONSIN RGNL
 (JVL)
 3 SW
 UTC-6(-5DT)
 N42°37.22′ W89°02.49′

 808
 B
 S4
 FUEL
 100LL, JET A
 TPA—1808(1000)
 Class IV, ARFF Index A

 NOTAM FILE IVL

CHICAGO H-5D, L-28H IAP, AD

CHICAGO

L-28H

RWY 14-32: H7301X150 (CONC) S-85, D-190, ST-175, DT-400 HIRL

RWY 14: REIL. PAPI(P4L)—GA 3.0° TCH 60'.

RWY 32: MALSR. VASI(V4L)-GA 3.0° TCH 51'.

RWY 04-22: H6700X150 (ASPH) S-95, D-130, ST-165, DT-230 HIRL

RWY 04: MALSR, PAPI(P4L)-GA 3.0° TCH 43'.

RWY 22: REIL VASI(V4L)-GA 3.0° TCH 60'. Tree.

RWY 18-36: H5003X75 (ASPH) S-40, D-50, DT-80 MIRL RWY 18: Road

AIRPORT REMARKS: Attended continuously. Closed to scheduled air carrier ops with greater than 9 passenger seats and unscheduled air carrier ops greater than 30 passenger seats. 90–day PPR, call 608–757–5768. Lgt sport acft with cruise speed of 60 mph or less enter tfc pat at 500′ AGL. Rwy 32 and Rwy 36 apch ends are closely aligned. Verify correct rwy and compass heading prior to departure. When twr clsd HIRL Rwy 04–22 preset on low ints; to incr ints and ACTIVATE MALSR Rwy 04 and Rwy 32, PAPI Rwy 04, HIRL Rwy 14–32, MIRL Rwy 18–36, REIL Rwy 14, PAPI Rwy 14 and VASI Rwy 32—CTAF. VASI Rwy 22 opr 24 hrs.

WEATHER DATA SOURCES: AWOS-3 (608) 758-1723. LAWRS (1200-0300Z‡).

COMMUNICATIONS: CTAF 118.8 ATIS 128.25 UNICOM 122.95 Janesville RCO 122.1r 114.3t (Green Bay Radio)

ROCKFORD APP/DEP CON 121.0 CLNC DEL 121.65 (when twr clsd)

JANESVILLE TOWER 118.8 (1200-0300Z‡) GND CON/CLNC DEL 121.65 (1200-0300Z‡)

AIRSPACE: CLASS D svc 1200-0300Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE FEP.

JANESVILLE (L) VOR/DME 114.3 JVL Chan 90 N42°33.48′ W89°06.32′ 034° 4.7 NM to fld. 931/3E. HIWAS

ILS 109.1 I-JVL Rwy 04. Class IE.

ILS/DME 111.35 I–REE Chan 50(Y) Rwy 32. Class IE. ILS/DME unmonitored.

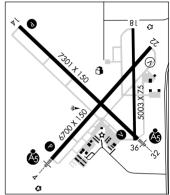
JOHN F KENNEDY MEML (See ASHLAND)

JOHN H. BATTEN (See RACINE)

JUNEAU N43°25.74′ W88°42.13′ NOTAM FILE UNU.

NDB (MHW) 344 UNU at Dodge Co.

CHICAGO L-28H



JUNEAU

DODGE CO (UNU) 1.7 E UTC-6(-5DT) N43°25.59′ W88°42.23′

CHICAGO H-5E. L-28H

934 B S4 FUEL 100LL, JET A NOTAM FILE UNU

ΙΔΡ

RWY 08-26: H5060X100 (ASPH) MIRL 0.9% up NE RWY 08: PAPI(P4L)-GA 3.0° TCH 25', Trees.

RWY 26: MALSE, PAPI(P4L)—GA 3.0° TCH 34', Tree.

0.5% up SW

Ø

G G

C3

RWY 02-20: H4029X75 (ASPH) S-12.5 MIRL

RWY 02: REIL. P-line. RWY 20: REIL. PAPI(P2L)-GA 3.0° TCH 26'. Tree.

AIRPORT REMARKS: Attended 1300-0200Z‡. Numerous Geese on and invof arpt. Irregular ultralight activity on and invof arpt. Mowing ops Mon-Fri with flashing lgts after dark, 302' paved safety area on W end of Rwy 08-26. 29' Twy E end of Rwy 08-26. MIRL Rwy 08-26 preset low ints; to increase ACTIVATE—CTAF. ACTIVATE MIRL Rwy 02-20; REIL Rwy 02 and Rwy 20-CTAF. Rwy 26 MALSF not certified for IFR.

WEATHER DATA SOURCES: AWOS-3 119.075 (920) 386-5682.

COMMUNICATIONS: CTAF/UNICOM 122.7

R MADISON APP/DEP CON 119.15 (1200-0500Z‡) RCHICAGO CENTER APP/DEP CON 133.3 (0500-1200Z±) GCO 121.725 (FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE MKE.

BADGER (H) VORTACW 116.4 BAE Chan 111 N43°07.01′ W88°17.06′ 313° 26.1 NM to fld.1080/2E. 2AWIH

JUNEAU NDB (MHW) 344 UNU N43°25.74′ W88°42.13′ at fld. NOTAM FILE UNU.

ILS/DME 109.55 I-JNE Chan 32Y Rwy 26. LOC only. LOC/DME unmonitored when FBO closed.

KENNEDY N46°33.18′ W90°54.87′ NOTAM FILE ASX.

GREEN BAY L-141

NDB (MHW) 254 ENY at John F. Kennedy Mem. Unmonitored 0000-1200Z‡.

KENOSHA RGNL (ENW) 4 W UTC-6(-5DT) N42°35.74′ W87°55.67′ 742 B S4 FUEL 100LL, JET A OX 1, 2 LRA NOTAM FILE ENW

CHICAGO H-5E, L-28H, A IAP AD

Rwy 7R-25L: 3302 X 75

€3

a

RWY 07L-25R: H5499X100 (CONC-GRVD) S-62, D-73, ST-85, DT-135 RWY 07L: MALSR.

RWY 25R: REIL, PAPI (P4L)-GA 3.0° TCH 45', Tree, Rgt tfc.

RWY 15-33: H4440X100 (CONC-GRVD) S-62. D-73. ST-86.

RWY 15: REIL. VASI(V4L)-GA 3.5° TCH 45'. Trees.

RWY 33: VASI(V4L)-GA 3.0° TCH 41'.

RWY 07R-25L: H3302X75 (ASPH-CONC)

D-48 MIRL 0.7% up SW

RWY 07R: PAPI(P4L)-GA 3.25° TCH 25'. Road. Rgt tfc.

RWY 25L: PAPI(P4L)—GA 3.25° TCH 25', Road.

AIRPORT REMARKS: Attended 1300-0300Z‡. Deer and birds on and invof arpt. Rwy 07R-25L is CLOSED to jet acft and acft weighing more than 12,500 lbs when Rwy 07L-25R is open. 440' radio twr 2.6 NM southeast of arpt ½ NM left of Rwv 33 centerline. Crane 190' 1.5 NM southeast of arpt, ops SR-SS. When twr clsd HIRL Rwy 07L-25R preset on low ints; to increase ints and ACTIVATE HIRL Rwy 15-33, MIRL Rwy 07R-25L, VASI Rwy 33, PAPI Rwy 25R, Rwy 07R and Rwy 25L, REIL Rwy 15 and Rwy 25R, MALSR Rwy 07L-CTAF, VASI Rwy 15 opr 24 hrs.

WEATHER DATA SOURCES: ASOS 127.175 (262) 652-7730.

COMMUNICATIONS: CTAF 118.6 ATIS 127.175 UNICOM 122.95

RCO 123.6R 109.2T (GREEN BAY RADIO)

R MILWAUKEE APP/DEP CON 120.15 (South) CLNC DEL 118.6 (0300-1300Z±)

TOWER 118.6 (1300-0300Z‡) GND CON 121.875

AIRSPACE: CLASS D 1300-0300Z‡ other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE IKK.

NORTHBROOK (H) VORW/DME 113.0 OBK Chan 77 N42°13.29′ W87°57.11′ 005° 22.5 NM to fld. 758/2W. (T) VOR/DME 109.2 ENW Chan 29 N42°35.94′ W87°55.90′ at fld. 734/02W. NOTAM FILE ENW.

VOR unusable 232°-295°.

CODEE NDB (LOM) 389 EN N42°33.61′ W88°01.73′ 067° 5.0 NM to fld.

IIS 109 35 I-ENW Rwy 07L Class IB. LOM CODEE NDB. Glide slope unusable byd 3° left of course. ILS unmonitored when twr closed.

KETTLE MORAINE N43°25.51′ W88°07.63′ NOTAM FILE ETB.

NDB (MHW) 329 LLE at West Bend Muni, Unmonitored, SHUTDOWN.

CHICAGO L-28H

KICKAPOO N43°39.31′ W90°19.99′ NOTAM FILE GRB.

NDB (MHW) 251 HBW at Joshua Sanford Fld. Unmonitored. VFR only. NDB OTS indef.

CHICAGO

€3

€3

3

HIRL

C3 4 81

\$742

36

KINGS LAND O' LAKES (See LAND O' LAKES)

KOOKY N44°12.95′ W88°23.94′ NOTAM FILE ATW.

NDB (MHW/LOM) 407 AQ 298° 5.8 NM to Outagamie Co Rgnl. Unmonitored.

GREEN BAY

L-28H

LA CROSSE MUNI (LSE) 4 NW UTC-6(-5DT) N43°52.76′ W91°15.40′

655 B S4 **FUEL** 100LL, JET A Class I, ARFF Index B NOTAM FILE LSE **RWY 18–36**: H8742X150 (CONC–GRVD) S–125. D–190. ST–175. DT–430. DDT–850

H-21, L-28G

ß

RWY 18: MALSR. PAPI(P4L)-GA 3.0° TCH 55'.

RWY 36: REIL. VASI(V4L)—GA 3.0° TCH 28'. Thid dspicd 1131'.

Iree.

RWY 13–31: H6050X150 (ASPH–GRVD) S–125, D–190, ST–175,

DT-430 HIRL

RWY 13: REIL. VASI(V4L)—GA 3.0° TCH 32'. Trees.

RWY 31: VASI(V4L)—GA 3.6° TCH 59'. Thid dsplcd 739'. Tower.

RWY 03-21: H5199X150 (ASPH) S-65, D-110, ST-139,

DT-190 HIRL

RWY 03: PAPI(P4L)-GA 4.0° TCH 40'. Pole.

RWY 21: PAPI(P4L)-GA 4.0° TCH 40'. Ground.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 13: TORA-5300 TODA-5300 ASDA-5300 LDA-5300

RWY 18: TORA-8742 TODA-8742 ASDA-8536 LDA-8536

RWY 31: TORA-6050 TODA-6050 ASDA-6050 LDA-5300

RWY 36: TORA-8742 TODA-8742 ASDA-8557 LDA-7426

AIRPORT REMARKS: Attended 1200–0300Z‡. For attendant other hrs call 608–783–8359. Rwy 36 and Rwy 03 apch ends are closely

aligned. Verify correct rwy and compass heading prior to

departure. Deer, waterfowl and other birds on and invof arpt. Heavy concentrations of waterfowl spring and fall.

Twr 1390' AGL 6 NM southwest. Numerous twrs up to 836' AGL 4 NM southeast. When twr clsd HIRL Rwy

13–31 preset low inst; to increase ints and ACTIVATE HIRL Rwys 18–36 and 03–21; REIL Rwys 13 and 36; MALSR Rwy 18—CTAF.

WEATHER DATA SOURCES: ASOS (608) 781-9067.

COMMUNICATIONS: CTAF 118.45 ATIS 124.95 UNICOM 122.95

RCO 122.2 122.35 (GREEN BAY RADIO)

MINNEAPOLIS CENTER APP/DEP CON 128.6

TOWER 118.45 (1200-0300Z‡) GND CON 121.8

AIRSPACE: CLASS D svc 1200-0300Z‡ other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE LSE.

(T) VORW/DME 108.4 LSE Chan 21 N43°52.57′ W91°15.36′ at fld. 650/2E.

VOR/DME unusable 100°-150° and 230°-060° byd 20 NM blo 3300'.

MINDI NDB (LOM) 272 LS N44°00.24′ W91°15.65′ 177° 7.5 NM to fld.

ILS 111.1 I-LSE Rwy 18. Class IT. LOM MINDI NDB. ILS unmonitored when twr clsd.

LAC DU FLAMBEAU

FRANKS SPB (4P5) 7 SW UTC-6(-5DT) N45°53.00′ W90°00.01′

GREEN BAY

1650 FUEL 80 NOTAM FILE GRB

WATERWAY N-S: 9000X1000 (WATER)

WATERWAY E-W: 2640X1000 (WATER)

SEAPLANE REMARKS: Attended May-Oct dawn-dusk. Dock in poor condition. Call ahead to ensure fuel avbl.

COMMUNICATIONS: CTAF 122.9

LADYSMITH

RUSK CO (RCX) 4 NE UTC-6(-5DT) N45°29.81' W91°00.03'

RWY 14-32: H4000X75 (ASPH) S-25 MIRL

RWY 14: REIL. PAPI(P2L)—GA 3.0° TCH 25'. Trees.

RWY 32: REIL. PAPI(P2L)-GA 3.0° TCH 25'. Trees.

RWY 01–19: H3200X75 (ASPH) MIRL 0.5% up N

RWY 01: Tree. RWY 19: Road.

AIRPORT REMARKS: Attended May-Sep 1400-0100Z‡, Oct-Apr

1400-2300Z‡. For attendance after hrs call

715–924–2080/403–0524. All fuel 24 hr self serve. Occasional deer invof arpt. Rwy 32 left side REIL OTS indef. ACTIVATE MIRL Rwy 14–32 and Rwy 01–19, PAPI Rwy 14 and Rwy 32 and REIL Rwy 14 and Rwy 32—122.8.

WEATHER DATA SOURCES: AWOS-3 118.125 (715) 532-2665.

COMMUNICATIONS: CTAF/UNICOM 122.8

RICE LAKE RCO 122.3 (GREEN BAY RADIO)

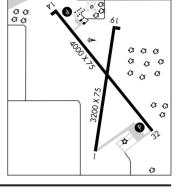
GCO 121.725 (FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE RPD.

RICE LAKE (T) VORW/DME 110.0 RPD Chan 37 N45°24.91′ W91°46.68′ 080° 33.2 NM to fld. 1092/1E, OTS indef.

W91°46.68° 080° 33.2 NM to fid. 1092/1E. OTS INDET.

NDB (MHW) 356 RCX N45°30.11′ W91°00.07′ at fld. NOTAM



GREEN BAY

L-14I

CHICAGO

L-28H. A

LAKE GENEVA

GRAND GENEVA RESORT (CØ2) 2 NE UTC-6(-5DT) N42°36.90 W88°23.38

835 B NOTAM FILE GRB

RWY 05-23: H3830X75 (ASPH)

FILE GRB. Unmonitored.

RWY 05: Trees. Rgt tfc. RWY 23: Trees.

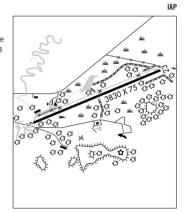
AIRPORT REMARKS: Unattended. Arpt CLOSED Dec 1 thru Apr 5, until further notice. Rwy 05–23 extensive cracking entire rwy. For noise abatement use Rwy 23. Rotating bcn OTS indef. MIRL Rwy 05–23 preset on medium ints dusk-dawn.

COMMUNICATIONS: CTAF/UNICOM 122.8

R MILWAUKEE APP/DEP CON 120.15 (South)

RADIO AIDS TO NAVIGATION: NOTAM FILE IKK.

NORTHBROOK (H) VORW/DME 113.0 OBK Chan 77 N42°13.29′ W87°57.11′ 323° 30.6 NM to fld. 758/2W.



LAKELAND/NOBLE F. LEE MEML FLD (SEE MINOCQUA/WOODRUFF)

LAKE LAWN (See DELAVAN)

LAKE LAWN N42°41.93′ W88°35.59′ NOTAM FILE GRB.

NDB (MHW) 404 LVV 185° 3.9 NM to Lake Lawn. OTS indef.

CHICAGO

LANCASTER MUNI (73C) 4 S UTC-6(-5DT) N42°46.83′ W90°40.86′ 1008 B FUEL 100LL, MOGAS TPA—1808(800) NOTAM FILE GRB

CHICAGO L-28G

RWY 18-36: H3850X45 (ASPH) S-13 LIRL

RWY 18: Thid dspicd 155'. Tree. RWY 36: Thid dspicd 220'.

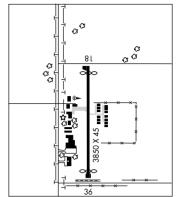
AIRPORT REMARKS: Unattended. For fuel call 608-723-4246. CAUTION:

Vehicles and people occasionally crossing rwy to reach hangar area on E side of rwy. Ultralight and skydiving activity on and invof arpt. Rwy 18–36 35′ p–line parallels W side 365′ from centerline. Rwy 18–36 dsplod thlds marked only with thid lgts.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE DBQ.

DUBUQUE (H) VORTACW 115.8 DBQ Chan 105 N42°24.09′ W90°42.54′ 359° 22.8 NM to fld. 1051/4E.



LAND O' LAKES N46°08.98' W89°12.63' NOTAM FILE LNL.

NDB (MHW) 396 LNL at Kings Land O' Lakes, Unmonitored.

GREEN BAY L-14J

LAND O' LAKES

KINGS LAND O' LAKES (LNL) 1 SE UTC-6(-5DT) N46°09.24' W89°12.73'

GREEN BAY L-14J

IAP

1704 B S4 **FUEL** 100LL NOTAM FILE LNL **RWY 14–32**: H4000X75 (ASPH) S–12 MIRL

RWY 14: REIL. PAPI(P2L)—GA 4.0° TCH 35'. Thid dsplcd 200'. Trees.

RWY 32: PAPI(P2L)-GA 3.0° TCH 26'. Road.

RWY 05-23: 2580X130 (TURF)

RWY 05: Trees. RWY 23: Thid dsplcd 600'. Trees.

AIRPORT REMARKS: Attended 1400–2300Z‡. Fuel 24 hr self svc. Occasional deer on and invof arpt. Rwy 05–23 CLOSED Dec 1 to Apr 15. Rwy 05–23 marked with yellow cones. Rwy 14 ngt ldg length 3600′. Thd lgts 400′fm end of rwy. ACTIVATE MIRL Rwy 14–32, and REIL Rwy 14—CTAF.

WEATHER DATA SOURCES: AWOS-3 119.525 (715) 547-6313.

COMMUNICATIONS: CTAF/UNICOM 122.8

R MINNEAPOLIS CENTER APP/DEP CON 133.65

GCO 121.725 (FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE RHI.

RHINELANDER (L) VORTAC 109.2 RHI Chan 29 N45°38.03′ W89°27.47′ 016° 32.9 NM to fld. 1590/2E. HIWAS.

LAND O' LAKES NDB (MHW) 396 LNL N46°08.98′ W89°12.63′ at fld. NOTAM FILE LNL. Upmonitored

LANGLADE CO (See ANTIGO)

LA POINTE

MADELINE ISLAND (4R5) 2 NE UTC-6(-5DT) N46°47.32′ W90°45.52′

649 B NOTAM FILE GRB

RWY 04-22: H3000X75 (ASPH) S-12.5 MIRL 0.8% up NE

RWY 04: PAPI(P2L)-GA 3.75° TCH 45'. Trees.

RWY 22: PAPI(P2L)-GA 3.75° TCH 45'. Trees.

AIRPORT REMARKS: Unattended. Deer on and invof arpt. ACTIVATE MIRL Rwy 04-22 and PAPI Rwy 04 and Rwy 22-CTAF.

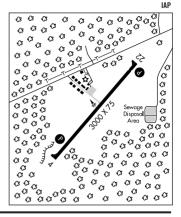
COMMUNICATIONS: CTAF 122.9

(R) MINNEAPOLIS CENTER APP/DEP CON 133.55

RADIO AIDS TO NAVIGATION: NOTAM FILE ASX.

ASHLAND (T) VORW/DME 110.2 ASX Chan 39

N46°32.96′ W90°55.04′ 022° 15.8 NM to fld. 820/2E.



LAWRENCE J. TIMMERMAN (See MILWAUKEE)

LONE ROCK N43°17.66′ W90°07.99′ NOTAM FILE LNR.

(L) VORW/DME 112.8 LNR Chan 75 202° 5.4 NM to Tri-Co Rgnl, 1184/0E, HIWAS,

CHICAGO I-11D 12F

GREEN RAY

1-141

RCO 122.35 (GREEN BAY RADIO)

LONE ROCK

TRI-CO RGNL (LNR) 2 N UTC-6(-5DT) N43°12.71′ W90°10.79′

CHICAGO

B S3 FUEL 100LL, JET A TPA-1517(800) NOTAM FILE LNR MIRI

H-5D. L-28G ΙΔΡ

RWY 09-27: H5000X75 (ASPH) S-12.5

RWY 09: PAPI(P2L)-GA 3.0° TCH 35'. Antenna. RWY 27: REIL, PAPI(P2L)-GA 3.0° TCH 33', Trees.

RWY 18-36: H1850X60 (ASPH) S-12.5 MIRL

RWY 36: Road.

RWY 18: Thid dsplcd 138'. Road. AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z‡, Self-serve fuel avbl 24 hrs, MIRL Rwys 09-27 preset low ints dusk-dawn; to increase ints and ACTIVATE MIRL Rwy 18-36, PAPI Rwy 09 and Rwy 27-CTAF.

WEATHER DATA SOURCES: ASOS 119.425 (608) 583-2576 HIWAS 112.8 LNR.

COMMUNICATIONS: CTAF/UNICOM 123.0

LONE ROCK RCO 122.35 (GREEN BAY RADIO)

- (R) MADISON APP/DEP CON 135.45 (1200-0500Z‡)
- R CHICAGO CENTER APP/DEP CON 133.3 (0500-1200Z‡)

AIRSPACE: CLASS E svc 1400-2200Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE LNR.

LONE ROCK (L) VORW/DME 112.8 LNR Chan 75 N43°17.66′ W90°07.99′ 202° 5.4 NM to fld. 1184/OE. 2AWIH

ILS/DME 108.35 I-I NR Chan 20(Y) Rwv 27.

L. O. SIMENSTAD MUNI (See OSCEOLA)

MADELINE ISLAND (See LA POINTE)

MADISON N43°08.69' W89°20.38' NOTAM FILE MSN. CHICAGO L-28H

(L) VORTACW 108.6 MSN Chan 23 at Dane Co Rgnl-Truax Fld. 860/3E. VOR portion unusable: 155°-230° byd 20NM blo 2800′; 230°-155° byd 30NM blo 2800′.

DME unusable: 010-070° byd 20 NM blo 4500′

070-210° bvd 20 NM blo 3500'

RCO 122.6 (GREEN BAY RADIO)

210-010° byd 30 NM blo 4000'

CHICAGO

CHICAGO

IAP. AD

H-5D, L-28H

43

L-28H

ΙΔΡ

MADISON

BLACKHAWK AIRFIELD (87Y) 10 E UTC-6(-5DT) N43°06.30′ W89°11.13′

920 B FUEL 100LL TPA-1920(1000) NOTAM FILE GRB

RWY 04-22: H2814X57 (ASPH) 0.5% Up SW

RWY 22: Thid dspicd 260'. Trees.

RWY 09-27: H2203X56 (ASPH) LIRL(NSTD) 0.8% up W RWY 09: Trees. RWY 27: Thid dspicd 230'. Road. Rgt tfc.

AIRPORT REMARKS: Unattended. Deer and turkeys on and invof arpt. Rwy 04-22 sfc cracks with 1' vegetation growing

on rwy, Rwy 09 avoid overflight of farm 34 mile E. Rwy ends obstructed visually from others by weeds and trees approximate 10' tall. Rwy 09-27 NSTD LIRL; rwy lgts +2 to 3' above rwy and NSTD spacing. Rwy 09-27 lgtd

COMMUNICATIONS: CTAF/UNICOM 122 7

RWY 04: Bldg. Rgt tfc.

R MADISON APP/DEP CON 120.1 (1200-0500Z‡) RCHICAGO CENTER APP/DEP CON 133.3 (0500-1200Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE MSN.

MADISON (L) VORTACW 108.6 MSN Chan 23 N43°08.69' W89°20.38' 106° 7.2 NM to fld. 860/3E.

______ DANE CO RGNL-TRUAX FLD (MSN) 5 NE UTC-6(-5DT) N43°08.39' W89°20.25'

887 B S4 FUEL 100LL, JET A Class I, ARFF Index C NOTAM FILE MSN CI

RWY 18-36: H9006X150 (CONC-GRVD) S-100, D-200, ST-175, DT-350 HIRL RWY 18: MALSR. PAPI (P4L)—GA 3.0° TCH 57'. Thid dspicd 400'.

Hill

RWY 36: MALSR. PAPI(P4L)—GA 3.0° TCH 59'. Thid dspicd 989'. RWY 03-21: H7200X150 (CONC-GRVD) S-100, D-200, ST-175, DT-350 HIRL 0.4% up NE

RWY 03: REIL. PAPI(P4L)—GA 3.0° TCH 49'. Thid dspicd 430'. Trees

RWY 21: MALSR. PAPI(P4L)-GA 3.0° TCH 41'. Road.

RWY 14-32: H5846X150 (CONC-GRVD) S-75, D-190, ST-175, DT-400 HIRL

RWY 14: REIL. Thid dsplcd 475'.

RWY 32: REIL. VASI(V4L)-GA 3.0° TCH 56'. Tree.

LAND AND HOLD SHORT OPERATIONS

HOLD SHORT POINT	DIST AVBL
14-32	3400
03-21	4850
18-36	6450
18-36	5300
14-32	7050
	14-32 03-21 18-36 18-36

ARRESTING GEAR/SYSTEM

RWY 18 BAK-14 BAK-12(B) (1500')

€3 N

(R) MADISON DEP CON 126.85 (1200-0500Z‡)

BAK-14 BAK-12(B) (750') RWY 36 BAK-14 BAK-12(B) (1620') RWY 21

AIRPORT REMARKS: Attended continuously. Birds on and invof arpt. PAEW SW corner of W ramp. Lgtd conc barricades W edge of W ramp. Air carrier and turbo jet training flights prohibited. General aviation svcs only on E ramp. General aviation access to and parking on W air carrier ramp is prohibited. Noise abatement procedures in effect ctc Arpt ops. Avoid overlfight of Yahara River invof arpt blo 2000' AGL. Rwy 18 and Rwy 14 apch ends are closely aligned. Verify correct rwy and compass heading prior to departure. When twr clsd HIRL Rwy 18-36 preset on low ints, to incr ints and ACTIVATE MALSR Rwy 18 and Rwy 36, HIRL Rwy 03-21 and Rwy 14-32. REIL Rwy 03, Rwy 14, and Rwy 32 and PAPI Rwy 18—CTAF. Twy K, J, F, E not avbl to air carrier acft with greater than 9 seats. Twy F, G, G1 and G2 restricted to military. Rwy 18-36 touchdown and rollout runway visual range avbl.

WEATHER DATA SOURCES: ASOS (608) 249-0615. LLWAS

COMMUNICATIONS: CTAF 119.3 ATIS 124.65 UNICOM 122.95

MADISON RCO 122.6 (GREEN BAY RADIO)

- R MADISON APP CON 120.1 (EAST) 135.45 (WEST) (1200-0500Z‡)
- R CHICAGO CENTER APP/DEP CON 133.3 (0500-1200Z‡)

MADISON TOWER 119.3 (1200-0500Z‡) GND CON 121.9 CLNC DEL 121.62

AIRSPACE: CLASS C svc 1200-0500Z‡ ctc APP CON other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE MSN

MADISON (L) VORTACW 108.6 MSN Chan 23 N43°08.69′ W89°20.38′ at fld. 860/3E.

MONAH NDB (MHW/LOM) 400 MS N43°03.76′ W89°20.75′ 005° 4.6 NM to fld. NDB unmonitored when twr clsd

ILS 109.9 I-MSN Rwy 36. Class IT. LOM MONAH NDB. Unmonitored when twr clsd.

I-DSZ Rwy 18. Class IB. Unmonitored when twr clsd. IIS 110 1

ILS/DME 111.55 I-DOJ Chan 52Y Rwv 21.

ASR (1200-0500Z‡)

MAGGS N44°56.69′ W91°22.42′ NOTAM FILE EAU.

NDB (LOM) 239 EA 224° 6.7 NM to Eau Claire-Chippewa Valley Rgnl. Unmonitored.

GREEN BAY

MANITOWISH WATERS (D25) 1 S UTC-6(-5DT) N46°07.32′ W89°52.94′

1610 B FUEL 100LL NOTAM FILE GRB

RWY 14-32: H3500X60 (ASPH) S-12.5 MIRL

RWY 32: PAPI(P2L)-GA 3.5° TCH 41'. Trees. RWY 14: Trees.

RWY 04-22: 3299X120 (TURF)

RWY 04: Trees RWY 22: Trees.

AIRPORT REMARKS: Attended Jun-Sep 1430-2300Z‡, Nov-Apr 1430-1530Z‡, Oct and May 1430-1800Z‡. 100LL avbl 24 hrs with credit card. Airframe repairs on call 715-686-7523. Rwy 04-22 CLOSED winters. Be alert: Rwy 14-32 may be unusable due to snow covered until 30 Apr. Birds and migratory waterfowl on and invof arpt. Deer and coyotes on and invof arpt. MIRL Rwy 14-32 preset on low ints, to increase ints and ACTIVATE PAPI Rwy

COMMUNICATIONS: CTAF/UNICOM 122.8

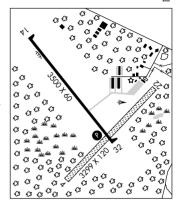
MINNEAPOLIS CENTER APP/DEP CON 133.65

32-CTAF. Rwv 04-22 marked with vellow cones.

GCO 121.725 (FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE RHI.

RHINELANDER (L) VORTAC 109.2 RHI Chan 29 N45°38.03' W89°27.47′ 327° 34.3 NM to fld. 1590/2E. HIWAS.



MANITOWOC CO (MTW) 2 NW UTC-6(-5DT) N44°07.73′ W87°40.84′ 651 B S2 FUEL 100LL, JET A, MOGAS NOTAM FILE MTW

RWY 17-35: H5001X100 (ASPH) S-60 HIRL

RWY 17: MALSR. VASI(V4L)-GA 3.0° TCH 42'. RWY 35: REIL. VASI(V4L)-GA 3.0° TCH 45'. Tree.

RWY 07-25: H3341X100 (ASPH) S-12 MIRL 0.4% up W RWY 07: Tree.

AIRPORT REMARKS: Attended Mon-Fri 1330-2300Z‡, Sat-Sun 1400-1900Z‡. For svc after hrs call 920-682-0043 during attended hrs or 920-242-7527 after attended hrs. Geese and numerous birds on and invof arpt. Rwy 35 REIL OTS indef. ACTIVATE MIRL Rwy 07-25, HIRL Rwy 17-35, REIL Rwy 35 and MALSR Rwy 17-CTAF.

WEATHER DATA SOURCES: AWOS-3 111.0 MTW (920) 682-1164. COMMUNICATIONS: CTAF/UNICOM 122.8

RCO 122.1R 111.0T (GREEN BAY RADIO)

R GREEN BAY APP/DEP CON 120.2 (1130-0530Z‡)

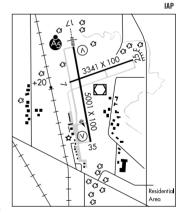
(R) MINNEAPOLIS CENTER APP/DEP CON 125.55 (0530-1130Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE MTW.

(T) VOR/DME 111.0 MTW Chan 47 N44°07.71'

W87°40.79' at fld. 650/2W. AWOS-3.

MAWOC NDB (LOM) 362 MT N44°11.98' W87°42.14' 162° 4.4 NM to fld

ILS 111.3 I-MTW Rwv 17. Class IC. LOM MAWOC NDB. ILS unmonitored.



EC, 17 DEC 2009 to 11 FEB 2010

GREEN RAY L-14J

GREEN BAY H-2J, L-28H

IAP

MARSHFIELD MUNI (MFI) 1 S UTC-6(-5DT) N44°38.21′ W90°11.36′

1277 B S3 FUEL 100LL, JET A NOTAM FILE MFI

RWY 16-34: H5000X100 (ASPH) S-35, D-50 MIRL 0.5% up NW

RWY 16: REIL. VASI(V2L)-GA 3.0° TCH 35'. Rgt tfc.

RWY 34: MALSR. VASI(V2L)-GA 3.0° TCH 42'.

RWY 04-22: H3600X100 (ASPH) S-35,D-45 MIRL

RWY 04: REIL. PAPI(P2L)-GA 3.0° TCH 29'. Rgt tfc. RWY 22. Pole

AIRPORT REMARKS: Attended 1400-0000Z‡ Nov-Apr. For after hrs svc call 715-743-4700. Rwy 34 departing acft climb to 2000' MSL prior to initiating rgt turn. Birds, waterfowl and deer invof arpt. Rotating bcn OTS indef, ACTIVATE MIRL Rwvs 04-22 and 16-34 and MALSR Rwy 34 and VASI Rwy 16 and Rwy 34-CTAF. PAPI Rwy 04 ops continuously.

WEATHER DATA SOURCES: ASOS 121.575 (715) 387-6516.

COMMUNICATIONS: CTAF/UNICOM 123.0

RCO 122.55 (GREEN BAY RADIO)

R MINNEAPOLIS CENTER APP/DEP CON 124.4

RADIO AIDS TO NAVIGATION: NOTAM FILE MFI.

WAUSAU (L) VORTACW 111.6 AUW Chan 53 N44°50.81' W89°35.19' 242° 28.7 NM to fld. 1205/2E. NOTAM FILE AUW.

CALIN NDB (LOM) 266 DU N44°34.15′ W90°09.06′ 338° 4.4 NM to fld. Unmonitored 0300-1330Z‡.

NDB (MHW) 391 MFI N44°38.45′ W90°11.26′ at fld.

\$DF 109.9 DUS Rwy 34. LOM CALIN NDB.

MAUSTON-NEW LISBON UNION (See NEW LISBON)

MAWOC N44°11 98' W87°42 14' NOTAM FILE MTW

NDB (LOM) 362 MT 170° 4.4 NM to Manitowoc Co.

McCOY N43°56.27′ W90°38.51′ NOTAM FILE CMY.

NDB (MHW) 412 CMY 287° 4.3 NM to Sparta/Fort McCov.

MEDFORD N45°06.32′ W90°18.52′ NOTAM FILE MDZ.

NDB (MHW) 335 MDZ at Taylor Co.

MEDFORD

TAYLOR CO (MDZ) 3 SE UTC-6(-5DT) N45°06.09' W90°18.05'

B FUEL 100LL, JET A TPA-2478(1000) NOTAM FILE MDZ

RWY 09-27: H6902X75 (ASPH) MIRL 0.3% up E

RWY 09: PAPI(P2L)-GA 3.0°. TCH 31'. Tree. RWY 27: REIL. PAPI(P2L)-GA 3.0° TCH 26'.

RWY 16-34: H4435X75 (ASPH) S-12.5 MIRL

RWY 16: PAPI(P2L). Tree. RWY 34: REIL. PAPI(P2L).

AIRPORT REMARKS: Attended Mon-Fri 1330-2330Z±. For svc after hrs call 715-678-2974. Fuel 24 hr self svc. Deer on and invof arpt. For tkf on Rwy 34 left turn after 1000' AGL. MIRL Rwy 09-27 preset low ints; to increase ints and ACTIVATE MIRL Rwv 16-34 and PAPI Rwv 16 and Rwv 34: REIL Rwv 27 and Rwv 34—CTAF, Overnight tiedown fee

WEATHER DATA SOURCES: AWOS-3 119.025 (715) 678-6030.

COMMUNICATIONS: CTAF/UNICOM 122.8

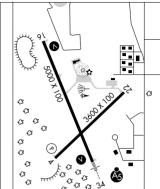
(R) MINNEAPOLIS CENTER APP/DEP CON 124.4

GCO 121.725 (FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE AUW.

WAUSAU (L) VORTACW 111.6 AUW Chan 53 N44°50.81′ W89°35.19′ 295° 34.0 NM to fld. 1205/2E.

MEDFORD NDB (MHW) 335 MDZ N45°06.32′ W90°18.52′ at fld. NOTAM FILE MDZ.



GREEN BAY

H-2J, L-14I

GREEN BAY

CHICAGO

GREEN BAY

GREEN BAY

H-2J, L-14I

ΙΔΡ

L-28G

L-141

ΙΔΡ

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MENOMONIE
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MENOMONIE MUNI-SCORE FLD (LUM) 3 E UTC-6(-5DT) N44°53.54′ W91°52.07′

895 B S4 FUEL 100LL, JET A NOTAM FILE GRB

GREEN RAY H-21, L-141

RWY 09-27: H5074X75 (ASPH) MIRL

ΙΔΡ

RWY 09: REIL. PAPI(P2L)-GA 3.0° TCH 43'. Trees.

RWY 27: REIL, PAPI(P2L)—GA 3.0° TCH 40', Road.

RWY 18-36: H3470X75 (ASPH) MIRL

RWY 18: REIL. PAPI(2PL)-GA 3.0° TCH 40'. Road.

RWY 36: PAPI(2PR)-GA 3.0° TCH 40'. Ground.

AIRPORT REMARKS: Attended Mon-Fri 1500-2300Z‡. ACTIVATE MIRL Rwy 09-27 and Rwy 18-36, PAPI Rwy 09, Rwy 27. Rwv 18 and Rwv 36. REIL Rwv 09. Rwv 18 and Rwv 27-CTAF.

WEATHER DATA SOURCES: AWOS-3 118.025 (715) 235-5342.

COMMUNICATIONS: CTAF/UNICOM 122 7

MINNEAPOLIS CENTER APP/DEP CON 125.3

GCO 121 725 (FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE EAU.

EAU CLAIRE (L) VORTACW 112.9 EAU Chan 76 N44°53.86′ W91°28.71′ 265° 16.6 NM to fld. 804/4E. 2AWIH

MERRILL MUNI (RRL) 1 NW UTC-6(-5DT) N45°11.94′ W89°42.77′

GREEN BAY H-21 I-141

IAP

1318 B S3 FUEL 100LL, JET A OX 4 NOTAM FILE RRL

RWY 07-25: H5100X75 (ASPH) S-45, D-65, ST-83, DT-100 MIRL RWY 07: REIL. PAPI(P2L)-GA 3.0° TCH 40'. Trees.

RWY 25: REIL. PAPI(P2L)-GA 3.0° TCH 40'. Trees.

RWY 16-34: H2997X75 (ASPH) S-26 MIRL 0.5% up N

RWY 16: Pole. RWY 34: Trees.

AIRPORT REMARKS: Attended Sat 1400-2300Z‡, Sun 1500-2200Z‡, Oct-May, Mon-Fri 1400-2300Z‡, June-Sep, Mon-Fri 1400-0100Z‡. CAUTION: Deer on and invof arpt. Ultralight activity on and invof arpt. MIRL Rwy 07-25 preset on low ints, to increase ints and ACTIVATE REIL Rwy 07 and Rwy 25 and MIRL Rwy 16-34-CTAF. WEATHER DATA SOURCES: AWOS-3 119.925 (715) 539-8422.

COMMUNICATIONS: CTAF/UNICOM 122.8

R MINNEAPOLIS CENTER APP/DEP CON 124.4

GCO 121.725 (FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE AUW.

WAUSAU (L) VORTACW 111.6 AUW Chan 53 N44°50.81′ W89°35.19′ 344° 21.8 NM to fld. 1205/2E. NDB (MHW) 257 RRL N45°11.92′ W89°42.26′ at fld. NOTAM FILE RRL, NDB unusable bvd 12 NM.

MIDDLETON MUNI-MOREY FLD (C29) 5 NW UTC-6(-5DT) N43°06.86' W89°31.89' B S4 FUEL 100LL, JET A TPA-1928(1000) NOTAM FILE GRB

CHICAGO L-28G ΙΔΡ

RWY 10-28: H4000X100 (ASPH) MIRL

RWY 10: REIL PAPI(P2L)-GA 4.0° TCH 32', Trees.

RWY 28: REIL. PAPI(P2L)-GA 4.0° TCH 36'. Pole. RWY 01-19: 2000X120 (TURF)

AIRPORT REMARKS: Attended 1400-2330Z‡. Birds on and invof arpt; especially during rainy periods. 135' crane 1/4 mile east 1900-0400Z±, 240' crane ½ mile from AER 28 SR-SS, 230' crane 1 mile SE AER 28 and 240' crane 2.2 miles SW. Crane 80' AGL ¼ SM E of AER, unlgtd/unflagged. Avoid noise sensitive area 1 mile SW. Ctc arpt manager at 608-836-1711 for noise abatement procedures. ACTIVATE MIRL Rwy 10-28 and REIL Rwy 10 and Rwv 28-CTAF

COMMUNICATIONS: CTAF/UNICOM 123.0

R MADISON APP/DEP CON 135.45 (1200-0500Z±) RCHICAGO CENTER APP/DEP CON 133.3 (0500-1200Z±) GCO 121.725 (FLIGHT SERVICES and MADISON APP CON)

RADIO AIDS TO NAVIGATION: NOTAM FILE MSN.

MADISON (L) VORTACW 108.6 MSN Chan 23 N43°08.69' W89°20.38' 255° 8.6 NM to fld. 860/3E. ILS/DMF 110 35 I-CFO Chan 40(Y) Rwy 10.

MILWAUKEE N42°56.82′ W87°53.82′

CHICAGO L-28H, A

RCO 122.65 122.4 (GREEN BAY RADIO) Unusable byd 30 NM blo 3000'.

MILWAUKEE

GENERAL MITCHELL INTL (MKE) 5 S UTC-6(-5DT) N42°56.83′ W87°53.80′ 723 B S4 FUEL 100LL, JET A OX 1 LRA ARFF Index—See Remarks NOTAM FILE MKE

CHICAGO H-5E, L-28H, A IAP, AD

RWY 01L-19R: H9690X200 (ASPH-CONC-GRVD) S-100, D-185, ST-175, DT-350 HIRL, CL

RWY 01L: ALSF2, TDZL, PAPI(P4R)—GA 3.0° TCH 65', Tree. 0.6%

RWY 19R: MALSR. PAPI(P4R)—GA 3.0°TCH 68'. Thid dsplcd 785'.

RWY 07R-25L: H7761X150 (ASPH-CONC-GRVD) S-100, D-185, ST-175, DT-350 HIRL 0.7% up

RWY 07R: MALSR, PAPI(P4L)-GA 3.0°TCH 56', Tree.

RWY 25L: REIL. PAPI(P4L)-GA 3.0° TCH 50'. Thid dspicd 432'.

RWY 13-31: H5538X150 (ASPH-CONC) S-80, D-110, ST-139. DT-170. MIRL

RWY 13: REIL, PAPI(P4L)—GA 3.0° TCH 54', Thid dspicd 741', Pole. RWY 31: REIL, PAPI(P4R)—GA 3.0° TCH 55', Thid dspicd 204'.

RWY 07L-25R: H4800X100 (ASPH) S-30, D-35, DT-55 MIRL

RWY 07L: REIL, VASI(V4L)—GA 3.1° TCH 37', Tree.

RWY 25R: REIL. PAPI(P4R)-GA 3.0° TCH 40'. Pole.

RWY 01R-19L: H4183X150 (CONC) S-85, D-115, ST-146, DT-180 MIRL

RWY N1R. RFII RWY 19I . Tree

RUNWAY DECLARED DISTANCE INFORMATION

RWY 07R: TORA-7761 TODA-7761 ASDA-7761 LDA-7761 RWY 13: TORA-5538 TODA-5538 ASDA-5538 LDA-4797 RWY 25L: TORA-7761 TODA-7761 ASDA-7761 LDA-7329 RWY 31: TORA-5538 TODA-5538 ASDA-5538 LDA-5331

AIRPORT REMARKS: Attended continuously. Rwy 07L-25R CLOSED to all jet acft and acft design group BIII and larger. Rwy 13-31 CLOSED turbojet acft without PPR from airport manager —call 414-747-5325. Rwy 01R CLOSED turbo jet tkf. Rwy 13-31 and Rwy 01R-19L and Rwy 07L-25R CLOSED except light weight single engine acft 0400-1200Z‡ daily. Rwy 07L-25R no acft 65,000 lbs or greater taxi between Twy C and Twy E. All approaches are over noise sensitive areas; all turbojet acft should refrain from conducting multi VFR tfc pattern apchs and departures without prior approval from arpt manager call 414-747-5325. Training flights involving successive use of any rwy prohibited 0400-1200Z‡. Acft with wingspan greater than 158' cannot pass simultaneously on Twy A and Twy B between Twy R and Twy A3. Class I ARFF Index C. Index D equipment avbl upon req. Preferred usage by acft between 0400-1200Z‡ is tkf Rwy 19R and ldg Rwy 01L. ASDE-X surveillance system in use: pilots should operate transponders with mode C on all twys and rwys. Birds on and invof arpt. Rwy 07L-25R and Rwy 01R-19L and Twy H, Twy J, Twy P not authorized under FAR Part 139 for scheduled ops involving air carrier acft designed for 10 or more passenger seats and scheduled/unscheduled air carrier ops involving acft designed for 31 or more passenger seats. Twy R3 clsd west of Twy R. Acft taxiing for departure on Rwy 25L via either Twy M or Rwy 13-31 should remain vigilant for the location of holding position signs/markings for Rwy 25L. Twy A clsd from Twy R to E and Twy E clsd from Twy T to M and Twy T clsd from Rwy 07R-25L to Twy E to DC10, B747, C-5 and MD11 during CAT II and CAT III ops. Twy B closed between Twy R and Twy A1 to DC8 acft and larger without prior permission from arpt manager at 414-747-5235. Twy D, D1, H, J, F (west of Twy Z and east of Rwy 01L-19R) closed to DC-9 acft and larger without PPR call arpt manager 414-747-5325. Twy V avbl for all type acft with 8450' avbl. Flight Notification Service (ADCUS) avbl. NOTE: See Special Notices Section-Intersection Departures During Period of Darkness. Continuous Power Facilities.

WEATHER DATA SOURCES: ASOS (414) 769-7161. TDWR.

COMMUNICATIONS: D-ATIS 126.4 UNICOM 122.95

MILWAUKEE RCO 122.65 122.4 (GREEN BAY RADIO) Unusable byd 30 NM bio 3000'.

MILWAUKEE APP CON 127.85 127.0 126.5 (A) 118.0 (B)

® MILWAUKEE DEP CON 127.0 125.35 (A) 119.65 (B) (R) MILWAUKEE APP CON 127.85 127.0 126.5 (A) 118.0 (B) MILWAUKEE TOWER 119.1 GND CON 121.8 **CLNC DEL** 120.8

AIRSPACE: CLASS C svc continuous ctc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE MKE.

BADGER (H) VORTACW 116.4 BAE Chan 111 N43°07.01' W88°17.06' 119° 19.9 NM to fld. 1080/2E. HIWAS

YANKS NDB (MHW/LOM) 260 BL N43°03.60′ W87°52.61′ 189° 6.8 NM to fld. Unmonitored.

TEELS NDB (MH/LOM) 242 GM N42°54.54′ W88°02.46′ 072° 6.8 NM to fld. Unmonitored.

CAPPY NDB (LOM) 410 MK N42°50.38′ W87°54.78′ 008° 6.5 NM to fld.

ILS/DME 110.3 I-MKE Chan 40 Rwy 01L. Class IIIE. LOM CAPPY NDB. MM unmonitored.

ILS/DME 111.5 I-GMF Chan 52 Rwv 07R. Class IE. LOM TEELS NDB.

ILS 110.3 I-BLY Rwy 19R. Class IE. LOM YANKS NDB.

ILS/DME 111.5 I-PXY Chan 52 Rwy 25L.

CONTINUED ON NEXT PAGE

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COMM/NAV/WEATHER REMARKS: APP/DEP CON: (A) West of 01L-19R extended LOC course of active rwy and north of Rwy 07R-25L extended course of active rwy. (B) East of Rwy 01L-19R extended LOC course of active rwy and south of Rwy 07R-25L extended course of active rwy.

LAWRENCE J. TIMMERMAN (MWC) 5 NW UTC-6(-5DT) N43°06.62′ W88°02.07′

745 B S4 FUEL 100, JET A 0X 1, 2 TPA—1745(1000) NOTAM FILE MWC RWY 15L-33R: H4103X75 (ASPH) S-30 MIRL

CHICAGO L-28H, A IAP, AD

RWY 15L: REIL. VASI(V4L)—GA 3.0° TCH 41'. Tree.

RWY 33R: VASI(V4L)—GA 3.0° TCH 26'. Tree.

RWY 15R-33L: 3231X270 (TURF)

RWY 15R: Tree. RWY 33L: Tree.

RWY 04L-22R: H3201X75 (ASPH) S-30 MIRL

RWY 04L: REIL. VASI(V4L)-GA 4.0° TCH 44'. Tree.

RWY 22R: REIL. VASI(V4L)—GA 3.0° TCH 36'. Tree.

RWY 04R-22L: 2839X270 (TURF)

RWY 04R: Tree. RWY 22L: Trees.

AIRPORT REMARKS: Attended May-Sep 1300-0400Z‡, Oct-Apr 1300-0300Z‡. Birds on and invof arpt. Turf Rwys 04R-22L, Rwy 15R-33L and all turf twys clsd 15 Oct-1 May. When twr clsd, ACTIVATE MIRL Rwy 04L-22R, VASI and REIL Rwys 04L and 22R, MIRL Rwy 15L-33R, VASI Rwys 15L and 33R, and REIL Rwy 15L-CTAF

WEATHER DATA SOURCES: AWOS-3 (414) 461-2954. LAWRS.

COMMUNICATIONS: CTAF 120.5 ATIS 128.3 UNICOM 122.95

TIMMERMAN RCO 123.6R 112.5T (GREEN BAY RADIO)

R MILWAUKEE APP/DEP CON 128.7 (North)

TIMMERMAN TOWER 120.5 (1300-0300Z‡) GND CON 121.7 CLNC DEL 121.7 (when Twr clsd)

 $\label{eq:airspace: class d} \textbf{Airspace: Class d} \ \text{svc} \ 1300-0300Z \ddagger \ \text{other times Class G}.$

RADIO AIDS TO NAVIGATION: NOTAM FILE MWC.

TIMMERMAN (L) VOR/DME 112.5 LJT Chan 72 N43°06.59′ W88°02.24′ at fld. 737/2W.

IL\$ 108.5 I-MWC Rwy 15L. LOC only. Unmonitored when twr clsd.

MINDI N44°00.24′ W91°15.65′ NOTAM FILE LSE.

NDB (LOM) 272 LS 177° 7.5 NM to La Crosse Muni.

CHICAGO

MINERAL POINT N42°53.28′ W90°13.59′ NOTAM FILE MRJ.

NDB (MHW) 365 MRJ at lowa Co.

CHICAGO

L-28G

CHICAGO

H-5D, L-28G

MINERAL POINT

IOWA CO (MRJ) 3 NW UTC-6(-5DT) N42°53.21′ W90°14.17′ 1171 B S4 FUEL 100LL, JET A OX 4 NOTAM FILE MRJ RWY 11-29: H5000X75 (ASPH) MIRL 0.7% up SE

RWY 11: REIL. PAPI(P2L)-GA 3.0° TCH 40'.

RWY 29: REIL. PAPI(P2L)—GA 3.0° TCH 40'.

RWY 04-22: H3601X60 (ASPH) S-12.5 MIRL

RWY 04: PAPI(P2L)—GA 3.0° TCH 31'. Road.

RWY 22: PAPI(P2L)-GA 3.0° TCH 31'.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z‡, Sat

1400–1800Z‡, Sun on call. For attendant call 608–553–7571 or 608–341–8455. Fuel avbl 24 hour self service. Call pager 608–376–4464 or self service. For service information call 608–987–9931/608–574–2294. Birds on and invof of arpt. Be alert: Acft taxiing on Rwys 04–22 and 11–29. For noise abatement preferred no wind rwy is Rwy 29. Rwy 22 VASI OTS indef. MIRL Rwy 11–29 preset on low ints, to increase ints and ACTIVATE MIRL Rwy 04–22, PAPI Rwy 04, Rwy 22, Rwy 11 and Rwy 29. REIL Rwy 11 and Rwy 29—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.525 (608) 987-2157.

COMMUNICATIONS: CTAF/UNICOM 122.8

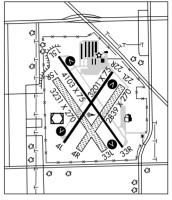
R CHICAGO CENTER APP/DEP CON 133.95

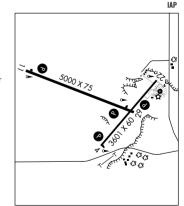
GCO 121.725 (FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE LNR.

LONE ROCK (L) VORW/DME 112.8 LNR Chan 75 N43°17.66′ W90°07.99′ 191° 24.9 NM to fld. 1184/0E.

MINERAL POINT NDB (MHW) 365 MRJ N42°53.28′ W90°13.59′ at fld. NOTAM FILE MRJ.





CONTINUED FROM PRECEDING PAGE

COMM/NAV/WEATHER REMARKS: APP/DEP CON: (A) West of 01L-19R extended LOC course of active rwy and north of Rwy 07R-25L extended course of active rwy. (B) East of Rwy 01L-19R extended LOC course of active rwy and south of Rwy 07R-25L extended course of active rwy.

LAWRENCE J. TIMMERMAN (MWC) 5 NW UTC-6(-5DT) N43°06.62′ W88°02.07′

745 B S4 FUEL 100, JET A 0X 1, 2 TPA—1745(1000) NOTAM FILE MWC RWY 15L-33R: H4103X75 (ASPH) S-30 MIRL

CHICAGO L-28H, A IAP, AD

RWY 15L: REIL. VASI(V4L)—GA 3.0° TCH 41'. Tree.

RWY 33R: VASI(V4L)—GA 3.0° TCH 26'. Tree.

RWY 15R-33L: 3231X270 (TURF)

RWY 15R: Tree. RWY 33L: Tree.

RWY 04L-22R: H3201X75 (ASPH) S-30 MIRL

RWY 04L: REIL. VASI(V4L)-GA 4.0° TCH 44'. Tree.

RWY 22R: REIL. VASI(V4L)—GA 3.0° TCH 36'. Tree.

RWY 04R-22L: 2839X270 (TURF)

RWY 04R: Tree. RWY 22L: Trees.

AIRPORT REMARKS: Attended May-Sep 1300-0400Z‡, Oct-Apr 1300-0300Z‡. Birds on and invof arpt. Turf Rwys 04R-22L, Rwy 15R-33L and all turf twys clsd 15 Oct-1 May. When twr clsd, ACTIVATE MIRL Rwy 04L-22R, VASI and REIL Rwys 04L and 22R, MIRL Rwy 15L-33R, VASI Rwys 15L and 33R, and REIL Rwy 15L-CTAF

WEATHER DATA SOURCES: AWOS-3 (414) 461-2954. LAWRS.

COMMUNICATIONS: CTAF 120.5 ATIS 128.3 UNICOM 122.95

TIMMERMAN RCO 123.6R 112.5T (GREEN BAY RADIO)

R MILWAUKEE APP/DEP CON 128.7 (North)

TIMMERMAN TOWER 120.5 (1300-0300Z‡) GND CON 121.7 CLNC DEL 121.7 (when Twr clsd)

 $\label{eq:airspace: class d} \textbf{Airspace: Class d} \ \text{svc} \ 1300-0300Z \ddagger \ \text{other times Class G}.$

RADIO AIDS TO NAVIGATION: NOTAM FILE MWC.

TIMMERMAN (L) VOR/DME 112.5 LJT Chan 72 N43°06.59′ W88°02.24′ at fld. 737/2W.

IL\$ 108.5 I-MWC Rwy 15L. LOC only. Unmonitored when twr clsd.

MINDI N44°00.24′ W91°15.65′ NOTAM FILE LSE.

NDB (LOM) 272 LS 177° 7.5 NM to La Crosse Muni.

CHICAGO

MINERAL POINT N42°53.28′ W90°13.59′ NOTAM FILE MRJ.

NDB (MHW) 365 MRJ at lowa Co.

CHICAGO

L-28G

CHICAGO

H-5D, L-28G

MINERAL POINT

IOWA CO (MRJ) 3 NW UTC-6(-5DT) N42°53.21′ W90°14.17′ 1171 B S4 FUEL 100LL, JET A OX 4 NOTAM FILE MRJ RWY 11-29: H5000X75 (ASPH) MIRL 0.7% up SE

RWY 11: REIL. PAPI(P2L)-GA 3.0° TCH 40'.

RWY 29: REIL. PAPI(P2L)—GA 3.0° TCH 40'.

RWY 04-22: H3601X60 (ASPH) S-12.5 MIRL

RWY 04: PAPI(P2L)—GA 3.0° TCH 31'. Road.

RWY 22: PAPI(P2L)-GA 3.0° TCH 31'.

AIRPORT REMARKS: Attended Mon-Fri 1400-2300Z‡, Sat

1400–1800Z‡, Sun on call. For attendant call 608–553–7571 or 608–341–8455. Fuel avbl 24 hour self service. Call pager 608–376–4464 or self service. For service information call 608–987–9931/608–574–2294. Birds on and invof of arpt. Be alert: Acft taxiing on Rwys 04–22 and 11–29. For noise abatement preferred no wind rwy is Rwy 29. Rwy 22 VASI OTS indef. MIRL Rwy 11–29 preset on low ints, to increase ints and ACTIVATE MIRL Rwy 04–22, PAPI Rwy 04, Rwy 22, Rwy 11 and Rwy 29. REIL Rwy 11 and Rwy 29—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.525 (608) 987-2157.

COMMUNICATIONS: CTAF/UNICOM 122.8

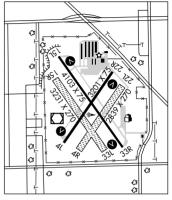
R CHICAGO CENTER APP/DEP CON 133.95

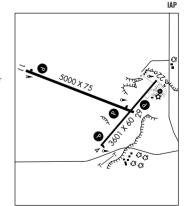
GCO 121.725 (FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE LNR.

LONE ROCK (L) VORW/DME 112.8 LNR Chan 75 N43°17.66′ W90°07.99′ 191° 24.9 NM to fld. 1184/0E.

MINERAL POINT NDB (MHW) 365 MRJ N42°53.28′ W90°13.59′ at fld. NOTAM FILE MRJ.





MINOCQUA-WOODRUFF

LAKELAND/NOBLE F LEE MEML FLD (ARV) 3 NW UTC-6(-5DT) N45°55.68′ W89°43.86′

1629 B S2 **FUEL** 100LL, JET A1 + TPA—2629(1000) NOTAM FILE ARV GREEN RAY H-2J, L-14J

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RWY 18-36: H5150X100 (ASPH) S-90, D-150 HIRL (NSTD).

RWY 18: REIL, VASI(V4L)-GA 3.0° TCH 44'.

RWY 36: MALSR. REIL. VASI(V4L)-GA 3.0° TCH 45'. Trees. RWY 10-28: H3602X75 (ASPH) S-35 MIRL

RWY 10. Trees

RWY 28: REIL. PAPI(P2L)—GA 3.0° TCH 37'. Trees.

AIRPORT REMARKS: Attended Oct-May 1400-2300Z‡, Jun-Sep

1300-0000Z‡. For attendant other hrs call 715-356-3891 or 715-356-2972. Deer on and invof arpt, HIRL Rwv 18-36 preset on low ints, to increase ints and ACTIVATE MIRL Rwy 10-28; REIL Rwv 18, Rwv 28 and Rwv 36; VASI Rwv 18; Rwv 36; PAPI Rwv 28 and MALSR Rwv 36-CTAF, Rwv 18-36 NSTD HIRL: NSTD thid lgts MALS type thid let bar in addition to standard lighting.

WEATHER DATA SOURCES: AWOS-3 121.125 (715) 356-2417.

COMMUNICATIONS: CTAF/UNICOM 122.7

WOODRUFF RCO 122.6 (GREEN BAY RADIO)

R MINNEAPOLIS CENTER APP/DEP CON 133.65

RADIO AIDS TO NAVIGATION: NOTAM FILE RHI.

RHINELANDER (L) VORTAC 109.2 RHI Chan 29 N45°38.03' W89°27.47′ 325° 21.1 NM to fld. 1590/2E. HIWAS.

ARBOR VITAE NDB (MHW) 221 ARV N45°55.57' W89°43.76' at fld. NOTAM FILE ARV. DOUGY NDB (MHW/LOM) 236 DO N45°50.07′ W89°43.83′ 001° 5.6 NM to fld. NDB unmonitored.

IIS/DMF 111 7 I-DOF Chan 54 Rwv 36. LOM DOUGY NDB. LOC only. LOC/DME unmonitored.

MONAH N43°03.76′ W89°20.75′ NOTAM FILE MSN.

CHICAGO L-28H

CHICAGO

ΙΔΡ

NDB (MHW/LOM) 400 MS 005° 4.6 NM to Dane Co Rgnl-Truax Fld. Unmonitored when twr clsd

(EFT) 3 NE UTC-6(-5DT) N42°36.89′ W89°35.42′

H-5D. L-28G

B S4 FUEL 100LL. JET A NOTAM FILE EFT RWY 12-30: H5000X75 (ASPH-AFSC) S-12.5 MIRL

RWY 30: REIL. PAPI(P2L)-GA 3.0° TCH 30'. Tree.

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13

RWY 12: REIL, PAPI(P2L)—GA 3.15° TCH 40', Tree. RWY 02-20: H3000X75 (ASPH) MIRL 0.9% up N

RWY 02: REIL, PAPI(P2L)—GA 3.0° TCH 25', Tree.

RWY 20: REIL. Tree. AIRPORT REMARKS: Attended Apr-Oct 1300-2300Z±. Nov-Mar 1400-2200Z±. For attendant after hrs call 608-329-7777. Ultralight activity on and invof arpt. MIRL Rwy 12-30 ops low ints, to increase ints and

ACTIVATE REIL Rwys 12 and 30 and Rwys 02 and 20 and PAPI Rwys 02 and 30 and MIRL Rwy 02-20-CTAF.

WEATHER DATA SOURCES: AWOS-3 118.375 (608) 328-8359. COMMUNICATIONS: CTAF/UNICOM 123.05

(R) ROCKFORD APP/DEP CON 126.0

GCO 121.725 (FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE FED

JANESVILLE (L) VOR/DME 114.3 JVL Chan 90 N42°33.48′ W89°06.32′ 276° 21.8 NM to fld. 931/3E.

HIWAS.

MONROE MUNI

MOSINEE N44°46.93′ W89°39.56′

GREEN BAY H-2J, L-14J

RCO 122.525 (GREEN BAY RADIO).

EC, 17 DEC 2009 to 11 FEB 2010

ΙΔΡ C3 C3 81 a Δz Œ €3 000 €3 3 (3 ദേദ C3 C3 G G 03/03 (3 ଓ ଓ ଓ 0 0 8 Œ C3 C3 0/0 × a €3 03 (03 2 03 اد 🖍 *(*3 *(*3 €3 03 03 ₩(3 **∕**3 ദേദ ß 03 03 **|**₹3 €3 ദേദ **43** €3 3

> 11174 mm 3 3 3

MOSINEE

 CENTRAL WISCONSIN
 (CWA)
 3 SE
 UTC-6(-5DT)
 N44°46.66′ W89°40.01′

 1277
 B
 S4
 FUEL
 100LL, JET A
 OX 1
 Class I, ARFF Index A
 NOTAM FILE CWA

 RWY 08-26:
 H7647X150 (CONC-GRVD)
 S-95, D-160, ST-175, DT-270
 HIRL

GREEN BAY H-2J, L-14J IAP, AD

GREEN BAY

GREEN BAY

L-28G

ΙΔΡ

RWY 08: MALSR RWY 26: REIL PAPI(P4L)—GA 3.0° TCH 49'. RWY 17-35: H6500X150 (CONC—GRVD) S-75, D-105, ST-133,

DT-180 HIRL 0.7% up N

RWY 17: REIL. VASI(V4L)—GA 3.0° TCH 42'. **RWY 35:** MALSR.

LAND AND HOLD SHORT OPERATIONS

 LANDING
 HOLD SHORT POINT
 DIST AVBL

 RWY 26
 17-35
 7300

 RWY 35
 08-26
 5000

RUNWAY DECLARED DISTANCE INFORMATION

RWY 08: TORA-7647 TODA-7647 ASDA-7647 LDA-7647 RWY 17: TORA-6500 TODA-6500 ASDA-6500 LDA-6500 RWY 26: TORA-7647 TODA-7647 ASDA-7647 LDA-7647 RWY 35: TORA-6500 TODA-6500 ASDA-6500 LDA-6500

AIRPORT REMARKS: Attended 1100-0300Z‡. 48 hr PPR for unscheduled air carrier ops with more than 30 passenger seats call arpt manager 715-693-2147. Twy E; north of Twy C is not avbl for air carrier ops over 60000 pounds. When twr closed ACTIVATE MALSR Rwy 08 and Rwy 35—CTAF. ACTIVATE HIRL Rwys 17-35, Rwy 08-26, and PAPI Rwy 26—CTAF. VASI Rwy 17 operates 24 hrs. Rwy 17 REIL OTS indef. Lnd fee for acft providing commercial svs.

WEATHER DATA SOURCES: AWOS-3 127.45 (715) 693-1116

COMMUNICATIONS: CTAF 119.75 ATIS 127.45 UNICOM 122.95

MOSINEE RCO 122.525 (GREEN BAY RADIO)

R MINNEAPOLIS CENTER APP/DEP CON 124.4

CWA TOWER 119.75 (1200-0400Z‡) GND CON 121.9

AIRSPACE: CLASS D svc 1200-0400Z‡ other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE AUW.

WAUSAU (L) VORTACW 111.6 AUW Chan 53 N44°50.81′ W89°35.19′ 218° 5.4 NM to or fld. 1205/2E.

STEVENS POINT (L) VORTAC 110.6 STE Chan 43 N44°32.60′ W89°31.83′ 339° 15.2 NM to fld. 1110/2E.

NOTAM FILE STE. HIWAS.

 BAYYE NDB (LOM)
 351
 PH
 N44°40.59′ W89°38.88′
 353° 6.1 NM to fld.

 DANCI NDB (LOM)
 275
 CW
 N44°45.62′ W89°47.35′ 079° 5.3 NM to fld.

 ILS/DME
 110.3
 I-CWA
 Chan
 40
 Rwy
 08.
 Class
 IA.
 LOM DANCI NDB.

ILS/DME 110.9 I-PHS Chan 46 Rwy 35. Class IE. LOM BAYYE NDB.

NECEDAH (DAF) 1 NW UTC-6(-5DT) N44°02.01′ W90°05.11′

919 B S2 TPA—1919(1000) NOTAM FILE GRB

RWY 18-36: H2700X60 (ASPH) LIRL 0.3% up S

RWY 18: Trees. RWY 36: Trees.

AIRPORT REMARKS: Unattended. During winter months call 608–565–7248 before ldg to determine status. ACTIVATE LIRL Rwy 18–36—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.7

R VOLK APP/DEP CON 135.25 (Mon-Fri 1400-2200Z‡ except holidays), other times ctc

R CHICAGO CENTER APP/DEP CON 133.3

RADIO AIDS TO NAVIGATION: NOTAM FILE STE.

STEVENS POINT (L) VORTAC 110.6 STE Chan 43 N44°32.60′ W89°31.83′ 219° 38.8 NM to fld. 1110/2E. HIWAS.

NFFNAH

BRENNAND (79C) 4 SW UTC-6(-5DT) N44°09.60′ W88°33.57′

850 S4 **FUEL** 100LL NOTAM FILE GRB

RWY 18–36: H2450X20 (ASPH) LIRL(NSTD)

RWY 18: Thid dspid 188'. Trees. RWY 36: Thid dspicd 275'.

AIRPORT REMARKS: Attended Mon-Fri 1400-2230Z‡, Sat 1400-1800Z‡. Call 920-475-6179 for repair. Rwy 18-36 has 2 flashing lgts 75′ N of Rwy 18 thid and 15′ S of Rwy 36 thid. Rwy 18-36 NSTD LIRL 1 thid lgt each side of thid. Rwy 18 and Rwy 36 white bar and centerline. ACTIVATE NSTD LIRL Rwy 18-36 5 clicks on 8 clicks off—CTAF

COMMUNICATIONS: CTAF 122.9

NEILLSVILLE MUNI (VIQ) 3 E UTC -6(-5DT) N44°33.49′ W90°30.73′ GREEN BAY

1237 B S 2 FUEL 100LL, M0GAS NOTAM FILE GRB L-14I

RWY 09-27: H3400X60 (ASPH) S-12 LIRL 0.9% up E

RWY 09: VASI(V2L)—GA 3.0° TCH 31′. Tree. RWY 27: VASI(V2L)—GA 3.5° TCH 25′. Tree.

AIRPORT REMARKS: Attended 1400-2300Z‡. Fuel avbl PPR, call 715-743-4400. PPR for hangar space call

715-743-4400. Rotating bcn OTS indef. LIRL Rwy 09-27 ops low ints, to increase ints and ACTIVATE VASI Rwys
09 and 27—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

R MINNEAPOLIS CENTER APP/DEP CON 124.4

RADIO AIDS TO NAVIGATION: NOTAM FILE STE.

STEVENS POINT (L) VORTAC 110.6 STE Chan 43 N44°32.60′ W89°31.83′ 273° 42.1 NM to fid. 1110/2E.

NEPCO N44°15.59′ W89°53.27′ NOTAM FILE ISW.

GREEN BAY

CHICAGO

CHICAGO

L-28H

NDB (LOM) 326 EK 020° 6.4 NM to Alexander Fld South Wood Co. Unmonitored.

NDB (MHW) 368 VIO N44°33.43′ W90°30.91′ at fld, Unmonitored, NOTAM FILE GRB,

NEST OF EAGLES (See SPOONER)

HIWAS

NEW HOLSTEIN MUNI (8D1) 1 W UTC-6(-5DT) N43°56.66′ W88°06.81′

992 B S4 **FUEL** 100LL TPA—1792(800) NOTAM FILE GRB

RWY 14-32: H3600X75 (ASPH) S-20 MIRL RWY 14: REIL(NSTD). Road. RWY 32: RF

RWY 32: REIL(NSTD). Ground.

RWY 04-22: 2970X250 (TURF)

RWY 04: Tree. RWY 22: Trees. Rgt tfc.

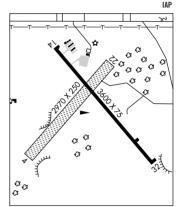
AIRPORT REMARKS: Attended 1500–23002‡. Rwy 04–22 CLOSED Nov 1
thru May 1. Numerous birds invof arpt. ACTIVATE MIRL Rwy 14–32
and REILS Rwy 14 and Rwy 32—CTAF.

COMMUNICATIONS: CTAF/UNICOM 123.0

R MILWAUKEE APP/DEP CON 127.0

RADIO AIDS TO NAVIGATION: NOTAM FILE OSH.

OSHKOSH (L) VORTAC 111.8 OSH Chan 55 N43°59.43′ W88°33.36′ O96° 19.4 NM to fld. 780/2E.



NEW LISBON

MAUSTON-NEW LISBON UNION (82C) 3 SE UTC-6(-5DT) N43°50.32′ W90°08.26′

906 B S2 **FUEL** 100LL, JET A NOTAM FILE GRB **RWY 14–32**: H3686X75 (ASPH) MIRL

NY 14-32: H3686X75 (ASPH) MIRL RWY 14: PAPI(P2L)—GA 3.5° TCH 30'. Road.

RWY 32: PAPI(P2L)—GA 4.0° TCH 26'. Trees.

AIRPORT REMARKS: Unattended. For fuel and repairs ctc

608–562–3374. Deer on and invof arpt. Rwy 14–32 298' paved stopway SE end. Rwy 14 PAPI OTS indef. ACTIVATE MIRL Rwy 14–32—122.8.

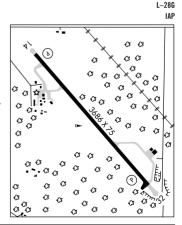
COMMUNICATIONS: CTAF 122.9

VOLK APP/DEP CON 135.25 (Mon-Fri 1400-2200Z‡ except holidays), other times ctc

R CHICAGO CENTER APP/DEP CON 133.3

RADIO AIDS TO NAVIGATION: NOTAM FILE DLL.

DELLS (H) VORTAC 117.0 DLL Chan 117 N43°33.05′ W89°45.82′ 314° 23.7 NM to fld. 1020/3E.



COMMUNICATIONS: CTAF 122.9

NEW RICHMOND RGNL (RNH) 2 N UTC-6(-5DT) N45°08.87′ W92°32.35′ GREEN BAY 998 B S4 FUEL 100LL, JET A OX 4 TPA-1998(1000) NOTAM FILE RNH H-21 I-141 A RWY 14-32: H5507X75 (ASPH) S-12 MIRL ΙΔΡ RWY 14: REIL. PAPI(P4L)—GA 3.0° TCH 40'. RWY 32: REIL. PAPI(P4L)-GA 3.0° TCH 20'. Pole. RWY 04-22: 2050X75 (TURF) 0.3% up NE AIRPORT REMARKS: Attended continuously. 24 hr self fuel avbl for credit card users or call 715-246-7251. Seaplane tfc adjacent to S side of arpt. Deer and birds on and invof arpt. Aerobatic practice area 4NM NE of arpt. Ultralight activity on and invof arpt. Turbo-jet touch and go not authorized. Bright Igts from ball fields ½ mile S during evenings May thru Sep. Rwy 04-22 open to ski equipped acft winter months. Rwy distance markers on Rwy 14. Automobile and pedestrian access onto arpt property restricted by security fencing and gates from 0400–1200Z‡. Contact arpt manager 715–246–7735 for access instructions. Rwy 32 VASI unusable byd 4 $^\circ$ right of course, MIRL Rwy 14-32 preset on low inst: to increase ints and ACTIVATE PAPI and REIL Rwys 14 and 32-CTAF. WEATHER DATA SOURCES: AWOS-3 120.0 (715) 246-3202. COMMUNICATIONS: CTAF/UNICOM 122.975 R MINNEAPOLIS APP/DEP CON 121.2 GCO 121,725 (MINNEAPOLIS APP CON and FLIGHT SERVICES) RADIO AIDS TO NAVIGATION: NOTAM FILE PNM. GOPHER (H) VORTACW 117.3 GEP Chan 120 N45°08.74' W93°22.39' 084° 35.4 NM to fld. 877/6E. NDB (MHW) 257 RNH N45°08.84′ W92°32.01′ at fld. NOTAM FILE RNH. NORTH COUNTRY SPB (See SOLON SPRINGS) **OCONTO** N44°52.55′ W87°54.74′ NOTAM FILE GRB. CDEEN BAY NDB (MHW) 388 OCQ at J. Douglas Bake Meml. NDB unusable 220°-360°. I-31A OCONTO J. DOUGLAS BAKE MEML (OCQ) 2 SW UTC-6(-5DT) N44°52.45′ W87°54.58′ GREEN BAY B FUEL 100LL NOTAM FILE GRB L-31A RWY 11-29: H3199X75 (ASPH) S-40, D-55, DT-90 MIRL ΙΔΡ RWY 11: REIL. Tree. RWY 29: Trees. RWY 04-22: 1845X150 (TURF) RWY NA. Trees RWY 22. Trees AIRPORT REMARKS: Attended 1400-2000Z±, 24 hour fuel avbl. Migratory waterfowl on and invof arpt, Confirm winter rwy conditions and snow removal with arpt manager 920-834-7727. Rwy 04-22 not plowed Nov-Apr. ACTIVATE MIRL Rwy 11-29-122.8. Rwy 11 REIL OTS indef. Rwy 04-22 thids marked with white cones. COMMUNICATIONS: CTAF/UNICOM 122.8 (R) GREEN BAY APP/DEP CON 119.5 (1130-0530Z‡) (R) MINNEAPOLIS CENTER APP/DEP CON 125.55 (0530-1130Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE GRB. GREEN BAY (H) VORTACW 115.5 GRB Chan 102 N44°33.31′ W88°11.69′ 031° 22.7 NM to fld. 767/1E. OCONTO NDB (MHW) 388 OCQ N44°52.55′ W87°54.74′ at fld. NDB unusable 220°-360°. **SWEETWATER BAY SPB** (3ØW) 6 NE UTC-6(-5DT) N44°57.12′ W87°48.51′ **GREEN BAY** 579 NOTAM FILE GRB WATERWAY ALL WAY: 10000X250 (WATER) SEAPLANE REMARKS: Attended irregularly. Apch from the W or NW over western shoreline; trees up to 85' along

OSCEOLA

L.O. SIMENSTAD MUNI (OEO) O SE UTC-6(-5DT) N45°18.57′ W92°41.40′ 903 B S4 FUEL 100LL, JET A TPA-1903(1000) NOTAM FILE GRB RWY 10-28: H5005X75 (ASPH) S-20, D-30 MIRL 0.4% up E

GREEN BAY H-2I, L-14I, A ΙΔΡ

RWY 10: PAPI(P2L)-GA 3.0° TCH 35'. Road.

RWY 28: REIL. PAPI(P4L)-GA 3.0° TCH 37'.

RWY 04-22: 2270X150 (TURF) 0.3% up SW

AIRPORT REMARKS: Attended Apr-Oct 1500-2200Z‡, Nov-Mar irregularly. Self syc fuel avbl 24 hrs. Extensive flight training. glider and ultralight. Deer and birds on and invof arpt. PAEW on and adjacent to arpt sfcs. Rwy 04-22 CLOSED 1 Dec-15 Apr. Rwy 04-22 CLOSED to wheeled acft when covered with snow or ice: open to ski equipped acft during winter months. Ctc arpt manager 612-327-3297, Avoid overflight of St. Croix River National Scenic Bi-way blo 2000' AGL, MIRL Rwy 10-28 preset on low ints dusk to dawn to incr ints ACTIVATE PAPI Rwy 10 and Rwy 28 and REIL Rwy 28-CTAF. Reflectors on twy. Rwy 04-22 marked with yellow cones.

WEATHER DATA SOURCES: AWOS-3 119.925 (715) 294-3845. Wind unreliable.

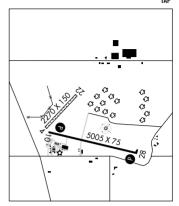
COMMUNICATIONS: CTAF 122.9

R MINNEAPOLIS APP/DEP CON 121.2.

GCO 121.725 (MINNEAPOLIS CLNC and FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE PNM.

GOPHER (H) VORTACW 117.3 GEP Chan 120 N45°08.74′ W93°22.39′ 065° 30.6 NM to fld. 877/6E. **2AWIH**



OSHKOSH N43°59.43′ W88°33.36′ NOTAM FILE OSH. (L) VORTAC 111.8 OSH Chan 55 at Wittman Rgnl. 780/2E. RCO 122.25 122.1R 111.8T (GREEN BAY RADIO)

CHICAGO L-28H

OSHKOSH

WITTMAN RGNL (OSH) 2 S UTC-6(-5DT) N43°59.06′ W88°33.42′

808 B S4 FUEL 100LL, JET A OX 1, 2 TPA—1808(1000) NOTAM FILE OSH

CHICAGO H-2J, L-28H IAP, AD

RWY 18-36: H8002X150 (CONC-GRVD) S-65, D-85, ST-107, DT-130 HIRL

RWY 18: REIL. VASI(V4L)-GA 3.0° TCH 47'.

RWY 36: MALSR. PAPI(P4L)-GA 3.0° TCH 52'. 0.3% down.

RWY 09-27: H6178X150 (ASPH-GRVD) S-75, D-125, ST-159,

DT-185 HIRL 0.4% up W

RWY 09: REIL. VASI(V4L)-GA 3.0° TCH 50'. Pole.

RWY 27: REIL. PAPI(P4L)—GA 3.0° TCH 47'. Thid dspicd 531'. Trees.

RWY 04–22: H3424X75 (ASPH) AUW–50 0.4% up SW

RWY 04: Pole. RWY 22: Pole.

RWY 13-31: H3060X75 (ASPH) AUW-50

RWY 31: Pole.
AIRPORT REMARKS: Attended 1300–0200Z‡. For arpt attendant other

INFURI REMARKS: Attended 1:300–02002‡. For arpt attendant other hrs call 920–236–7820. Birds on and invof arpt especially gulls. Rwy 13–31 and Rwy 04–22; Twys C; H and P not avbl to air carrier ops with more than 30 passenger seats. Rwy 13–31 and Rwy 04–22 have heavy cracking and vegetation growing through rwy surface, full length. Rwy 22 and Rwy 27 apch ends are closely aligned. Verify correct rwy and compass heading prior to

departure. When twr clsd HIRL Rwy 09–27 preset on med ints; to increase ints and ACTIVATE HIRL Rwy 18–36; MALSR Rwy 36 and PAPI Rwy 27—CTAF.

WEATHER DATA SOURCES: ASOS (920) 426-1644. LAWRS.

COMMUNICATIONS: CTAF 118.5 ATIS 125.9 UNICOM 122.95

OSHKOSH RCO 122.25 122.1R 111.8T (GREEN BAY RADIO)

R MILWAUKEE APP/DEP CON 127.0

OSHKOSH TOWER 118.5 (1200-0400Z‡) GND CON 121.9

AIRSPACE: CLASS D svc 1200-0400Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE OSH.

 OSHKOSH (L) VORTAC 111.8
 OSH
 Chan 55
 N43°59.43′ W88°33.36′
 at fld. 780/2E.

 POBER NDB (LOM) 395
 OS
 N43°52.43′ W88°33.46′
 358° 6.6 NM to fld. Unmonitored.

NOTAM FILE GRB

ILS 110.5 I-OSH Rwy 36 Class IT. LOM POBER NDB.

COMM/NAV/WEATHER REMARKS: LOC/GS unmonitored when twr clsd. LOM/OM unmonitored.

OUTAGAMIE CO (See APPLETON)

PALMYRA MUNI (88C) 0 NW UTC-6(-5DT) N42°53.01′ W88°35.85′

CHICAGO

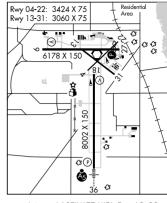
851 S4 FUEL 100LL, MOGAS RWY 09-27: 2800X200 (TURF) LIRL

RWY 27: Tree.

AIRPORT REMARKS: Unattended. For fuel call 262-495-4342. Crane 190' AGL 300' south of AER 09 SR-SS.

ACTIVATE LIRL Rwy 09-27—CTAF. Rwy 09-27 marked by yellow cones.

COMMUNICATIONS CTAF 122.9



 PARK FALLS MUNI
 (PKF)
 2 NE
 UTC-6(-5DT)
 N45°57.30′ W90°25.47′

 1500
 B
 FUEL
 100LL, MOGAS
 NOTAM FILE GRB

RWY 18–36: H3200X60 (ASPH) S–20 MIRL 0.3% up S

RWY 18: PAPI(P2L)-GA 3.0 TCH 29'. Trees.

RWY 36: PAPI(P2L)-GA 3.0 TCH 29'. Trees.

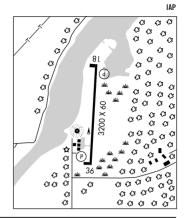
AIRPORT REMARKS: Attended irregularly. For fuel call 715–762–3971.
PAEW on and adjacent to arpt sfcs. Rotating bcn OTS indef. Rwy 18–36 has loose snow over thin packed snow until spring.
ACTIVATE MIRL Rwy 18–36—CTAF.

COMMUNICATIONS: CTAF 122.9

R MINNEAPOLIS CENTER APP/DEP CON 133.65

RADIO AIDS TO NAVIGATION: NOTAM FILE IWD.

IRONWOOD (L) VORTACW 108.8 IWD Chan 25 N46°31.94′ W90°07.55′ 199° 36.8 NM to fld. 1230/1E. HIWAS. NDB (MHW) 371 PKF N45°57.18′ W90°25.57′ at fld. NDB unmonitored. NOTAM FILE GRB.



PASER N42°40.95′ W87°53.97′ NOTAM FILE RAC.

NDB (MHW/LOM) 206 RA 041° 6.0 NM to John H. Batten. Unmonitored. NDB unusable byd 10 NM.

PHILLIPS N45°42.18′ W90°24.74′ NOTAM FILE PBH.

NDB (MHW) 263 PBH at Price Co. RCO 122.05 (GREEN BAY RADIO) GREEN BAY L-141

GREEN BAY

H-2J, L-14I

CHICAGO

GREEN BAY

L-141

PHILLIPS

PRICE CO (PBH) 1 NW UTC-6(-5DT) N45°42.54′ W90°24.15′
1497 B S4 FUEL 100LL, JET A, MOGAS NOTAM FILE PBH
RWY 01-19: H5000X75 (ASPH) D-60 MIRL 0.6% UD N

Rwy 01: REIL. PAPI(P4L)—GA 3.0° TCH 35'.

RWY 19: REIL. PAPI(P4L)—GA 3.0° TCH 30'. Trees.

RWY 06-24: H3950X75 (ASPH) S-28, D-40 MIRL.

RWY 06: VASI(V2L)-GA 3.0° TCH 47'. Tree.

RWY 24: REIL. VASI(V2L)-GA 3.0° TCH 45'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400-2230Z‡, Sat 1500-2230Z‡, Sun 1600-2230Z‡. Fuel avbl 24 hrs with credit card. Birds on and invof arpt. Rwy 19 PAPI OTS indef. ACTIVATE MIRL Rwy 06-24 and Rwy 01-19 and VASI Rwys 06 and 24; PAPI Rwy 01 and 19; REIL Rwy 01. Rwy 19 and Rwy 24—CTAF.

WEATHER DATA SOURCES: AWOS-3 125.875 (715) 339-4520.

COMMUNICATIONS: CTAF/UNICOM 122.8

PHILLIPS RCO 122.05 (GREEN BAY RADIO)

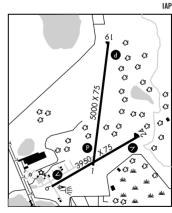
MINNEAPOLIS CENTER APP/DEP CON 133.65

RADIO AIDS TO NAVIGATION: NOTAM FILE RHI.

RHINELANDER (L) VORTAC 109.2 RHI Chan 29 N45°38.03′ W89°27.47′ 275° 40 NM to fld. 1590/2E. HIWAS.

PHILLIPS NDB (MHW) 263 PBH N45°42.18′ W90°24.74′ at fld. NOTAM FILE PBH.

PISO (See SURING)



PLATTEVILLE MUNI (PVB) 3 SE UTC-6(-5DT) N42°41.36′ W90°26.66′

1025 B FUEL 100LL, JET A NOTAM FILE GRB I-28G ΙΔΡ RWY 15-33: H3999X75 (ASPH) S-12 5 MIRI RWY 33: REIL. PAPI(2PL)-GA 3.0° TCH 25'. RWY 15. RFII RWY 07-25: H3599X75 (ASPH) S-30, D-35 MIRL 0.6% up NE. RWY 25: Road. AIRPORT REMARKS: Attended Apr-Sep 1330-0130Z‡, Oct-Mar 1330-2330Z‡. 24 hr self svc fuel avbl with credit card. ACTIVATE MIRL Rwy 15-33 and Rwy 07-25; REIL Rwy 15 and Rwy 33-CTAF WEATHER DATA SOURCES: AWOS-3 120.575 (609) 348-3637. COMMUNICATIONS: CTAF/UNICOM 122.7 RCO 122.5 (GREEN BAY RADIO). R CHICAGO CENTER APP/DEP CON 133.95 RADIO AIDS TO NAVIGATION: NOTAM FILE DBO. DUBUQUE (H) VORTACW 115.8 DBO Chan 105 N42°24.09' W90°42.54' 030° 20.9 NM to fld. 1051/4E. NDB (MHW) 203 PVB N42°41.27′ W90°26.18′ at fld. NOTAM FILE GRB. **POBER** N43°52.43′ W88°33.44′ NOTAM FILE OSH. CHICAGO NDB (LOM) 395 OS 358° 6.6 NM to Wittman Rgnl. Unmonitored. PORTAGE MUNI (C47) 2 NW UTC-6(-5DT) N43°33.62′ W89°28.97′ CHICAGO 825 B FUEL 100LL, MOGAS TPA-1825(1000) NOTAM FILE GRB I_28G IAP RWY 17-35: H3775X60 (ASPH) MIRL (NSTD) 0.3% up S RWY 17: REIL(NSTD), PVASI(PSIL), Thid dsplcd 103', Road. RWY 35: Thid dspled 262', Road. RWY 04-22: H2560X40 (ASPH) 0.3% up SW RWY 04: Thid dspicd 60'. Road. RWY 22: Road. AIRPORT REMARKS: Attended Mon-Fri 1400-2200Z‡, Sat-Sun 1600-2200Z‡. Fuel avbl 24 hrs with credit card. Rwy 04-22 CLOSED Nov 15 to Apr 15, rwy not plowed during winter. 115' crane 200' southwest Rwy intersection Mon-Thu 1900-0400Z‡, PAEW AER 04 indef, Numerous deer on and invof arpt, Rwy 04-22 severe cracking and plants growing thru pavement. P-line 110' AGL 1580' from dsplcd thld Rwy 35. Rwy 35 large hangars and trees 200' W of rwy cause wind shear with strong NW winds. Rwy 17-35 NSTD MIRL. Rwy 17 first 100' not Igtd; Rwy 35 first 193' not lgtd. Rwy 04-22 marked with numbers only. COMMUNICATIONS: CTAF/UNICOM 122.7 DELLS RCO 122.1R 117.0T (GREEN BAY RADIO) RCHICAGO CENTER APP/DEP CON 133.3 (0500-1200Z‡) (R) MADISON APP/DEP CON 135.45 120.1 (1200-0500Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE DLL. DELLS (H) VORTAC 117.0 DLL Chan 117 N43°33.05′ W89°45.82′ 084° 12.3 NM to fld. 1020/3E. PRAIRIE DU CHIEN MUNI (PDC) 2 SE UTC-6(-5DT) N43°01.16' W91°07.42' CHICAGO 661 B FUEL 100LL, JET A TPA-1661(1000) NOTAM FILE PDC H-5D I-28G RWY 14-32: H5000X75 (ASPH) S-30, D-60 MIRL IAP RWY 14: REIL. PAPI(P2L)—GA 3.0° TCH 28'. Pole. RWY 32: REIL. PAPI(P2L)-GA 4.0° TCH 30'. Trees. RWY 11-29: H3999X75 (ASPH) S-24, D-40 MIRL RWY 11. Stack RWY 29: Trees. AIRPORT REMARKS: Attended 1600-2200Z‡. Fuel 24 hr self svc. ACTIVATE MIRL Rwy 11-29, Rwy 14-32, PAPI Rwy 14 and Rwy 32 and REIL Rwy 14 and Rwy 32-CTAF. WEATHER DATA SOURCES: AWOS-3 119.925 (608) 326-9122. COMMUNICATIONS: CTAF/UNICOM 122 8 RCO 122.25 (GREEN BAY RADIO). (R) CHICAGO CENTER APP/DEP CON 133.95 RADIO AIDS TO NAVIGATION: NOTAM FILE FOD.

CHICAGO

WAUKON (L) VORTAC 116.6 UKN Chan 113 N43°16.81′ W91°32.24′ 126° 24 NM to fld. 1288/5E.

PRAIRIE DU SAC

SAUK-PRAIRIE (91C) 2 W UTC-6(-5DT) N43°17.87′ W89°45.35′

832 B S4 NOTAM FILE GRB

RWY 18-36: H2936X32 (ASPH) LIRL 0.4% up N

RWY 18: REIL(NSTD). RWY 36: REIL. Tree.

AIRPORT REMARKS: Unattended. Ultralight activity on and invof arpt. Maintenance vehicle tfc on and invof arpt. W ramp and twy pvt, clsd transient. ACTIVATE LIRL Rwy 18-36 and REIL Rwy 18 and Rwy 36-CTAF.

COMMUNICATIONS: CTAF 122.9

- (R) MADISON APP/DEP CON 135.45 (1200-0500Z±)
- R CHICAGO CENTER APP/DEP CON 133.3 (0500-1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE DLL.

DELLS (H) VORTAC 117.0 DLL Chan 117 N43°33.05′ W89°45.82′ 176° 15.2 NM to fld. 1020/3E.

PRENTICE (5N2) 1 E UTC-6(-5DT) N45°32.58′ W90°16.76′

1578 B NOTAM FILE GRB

RWY 09-27: H3250X60 (ASPH) MIRL

RWY 09: Thid dsplcd 350'. Railroad.

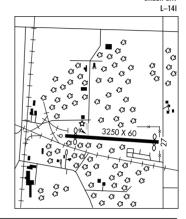
RWY 27: Thid dspicd 120'. Tree. AIRPORT REMARKS: Unattended. ACTIVATE twy and MIRL Rwy

09-27-CTAF

COMMUNICATIONS: CTAF/UNICOM 123.0

RADIO AIDS TO NAVIGATION: NOTAM FILE RHI.

RHINELANDER (L) VORTAC 109.2 RHI Chan 29 N43°38.03' W89°27.47' 259° 35 NM to fld. 1590/2E. HIWAS.



PRICE CO (See PHILLIPS)

PULASKI

CARTER (92C) 2 S UTC-6(-5DT) N44°38.47′ W88°12.91′

GREEN BAY L-31A

IAP

CHICAGO

GREEN BAY

L-28G

ΙΔΡ

785 S4 FUEL 100LL, MOGAS TPA-1585(800) NOTAM FILE GRB

RWY 12-30: H2555X30 (ASPH) LIRL (NSTD) 0.3% up NW RWY 12: Thid dspicd 375'. Tree. RWY 30: Thid dspicd 130'. Trees.

RWY 03-21: 1610X80 (TURF)

RWY 03: Road. RWY 21: Road.

AIRPORT REMARKS: Attended dalgt hrs. Parachute Jumping. Ultralight flying on and invof arpt. Rwy 12-30 large cracks in rwy. Limited line-of-sight between Rwy 03 and 12, Rwys 03 and 30. Rwy 12-30 NSTD LIRL, spaced every 300'. For NSTD LIRL Rwy 12-30 ACTIVATE 3 clicks on 5 clicks off-CTAF.

COMMUNICATIONS: CTAF 122.9

- R GREEN BAY DEP CON 126.55 (1130-0530Z±) (R) GREEN BAY APP CON 119.4 (1130-0530Z±)
- R MINNEAPOLIS CENTER APP/DEP CON 125.55 (0530-1130Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE GRB.

GREEN BAY (H) VORTACW 115.5 GRB Chan 102 N44°33.31′ W88°11.69′ 349° 5.2 NM to fld. 767/1E. HIWAS.

QUAMS MARINA SPB (See STOUGHTON)

RACINE

JOHN H. BATTEN (RAC) 2 NW UTC-6(-5DT) N42°45.67′ W87°48.84′

674 B S2 FUEL 100LL, JET A LRA NOTAM FILE RAC

RWY 04-22: H6574X100 (CONC-GRVD) S-50, D-65, ST-83 HIRL RWY 04: MALSF. REIL. PAPI(P4L). Thid dsplcd 734'. Road.

RWY 22: REIL. PAPI(P4L)-GA 3.0° TCH 46'. Thid dspicd 390'. Railroad.

RWY 14-32: H4422X100 (ASPH) S-25, D-35 MIRL 0.4% up NW RWY 14: REIL, PAPI(P4L), Thid dspicd 806', Road.

RWY 32: REIL. Tree.

AIRPORT REMARKS: Attended Mon-Fri 1300-2300Z‡, Sat-Sun 1400-2300Z±. Migratory waterfowl on and invof arpt. PAEW AER

22. Rwy 22 REIL intermittent west side. ACTIVATE HIRL Rwy 04-22 and MIRL Rwy 14-32: PAPI Rwys 04 and 14: REIL Rwys 04; 22; 14 and 32; MALSF Rwy 04-CTAF. PAPI Rwy 22 opr 24

hrs. Flight Notification Service (ADCUS) avbl. WEATHER DATA SOURCES: ASOS 117.7 HRK (262) 635-0959.

COMMUNICATIONS: CTAF/UNICOM 123.075

(R) MILWAUKEE APP/DEP CON 120.15 (South) **CLNC DEL** 120.15

RADIO AIDS TO NAVIGATION: NOTAM FILE RAC.

HORLICK (T) VORW/DME 117.7 HRK Chan 124 N42°45.73'

W87°48.88' at fld. 669/2W. ASOS.

PASER NDB (MHW/LOM) 206 RA N42°40.95′ W87°53.97′ 041°

6.0 NM to fld. Unmonitored. NDB unusable byd 10 NM.

GS unusable blo 819'.

II\$ 108 7 I-RAC Rwy 04 LOM PASER NDB. Unmonitored 0500-1200Z‡.

RED WING MUNI (See RED WING MUNI Minnesota)

REEDSBURG MUNI (C35) 1 E UTC-6(-5DT) N43°31.55′ W89°58.99′

907 B S4 FUEL 100LL, JET A TPA-1907(1000) NOTAM FILE GRB

RWY 18-36: H4840X75 (ASPH) S-30 MIRL 0.5% up N RWY 18: REIL, PAPI(P2L)—GA 3.0° TCH 25', Thid dspicd 440', Road.

RWY 36: REIL. Thid dsplcd 300'. Railroad.

RWY 07-25: H2510X50 (ASPH) S-30 MIRL 0.6% up NE

RWY 07: Thid dsplcd 230'. Road. RWY 25: Thid dsplcd 300'. Road.

AIRPORT REMARKS: Attended Jun-Aug 1400-0200Z‡, Sep-May 1400-2300Z‡. Deer on and invof arpt. 160' crane E of AER 07 flagged/lgtd. MIRL Rwys 18-36 and 07-25 preset on low ints, to increase ints and ACTIVATE REIL Rwys 18 and 36 and PAPI Rwy 18-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

DELLS RCO 122.1R 117.0T (GREEN BAY RADIO)

- (R) MADISON APP/DEP CON 135.45 (1200-0500Z‡) GCO 121.725 (FLIGHT SERVICES)
- R CHICAGO CENTER APP/DEP CON 133.3 (0500-1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE DLL.

DELLS (H) VORTAC 117.0 DLL Chan 117 N43°33.05′ W89°45.82′ 258° 9.7 NM to fld. 1020/3E.

63 Δ OB O. G^G ଓର G ŏ

CHICAGO

CHICAGO

L-28G

IAP

ΙΔΡ

H-5E, L-28H, A

315 RHINELANDER-ONEIDA CO (RHI) 2 SW UTC-6(-5DT) N45°37.85′ W89°28.00′ GREEN BAY 1624 B S4 FUEL 100LL, JET A Class I, ARFF Index A NOTAM FILE RHI H-2J, L-14J RWY 09-27: H6800X150 (CONC-GRVD) S-95, D-150, DT-235 HIRL 0.4% up W ΙΔΡ RWY 09: MALSR. PAPI(P4L)-GA 3.0° TCH 53'. RWY 27: REIL. VASI(V4L)-GA 3.0° TCH 49'. Trees. RWY 15-33: H5201X100 (ASPH) S-55, D-95, DT-160 HIRL O CO RWY 15: REIL. VASI(V4L)-GA 3.75° TCH 50'. Tree. RWY 33: REIL. PAPI(P4L)-GA 3.0° TCH 25'. M a RUNWAY DECLARED DISTANCE INFORMATION RWY 09: TORA-6799 TODA-6799 ASDA-6799 LDA-6799 TORA-6799 TODA-6799 ASDA-6799 LDA-6799 RWY 27: 3 Ă3 AIRPORT REMARKS: Attended 1200-0100Z‡, Birds and covote on and 6800 X 150 invof arpt. PPR for unscheduled air carrier opns with more than 9 passenger seats ctc arpt manager 715-365-3416 or 43 ය යැය G, 715-365-3419. Rwy 15 VASI OTS indef. HIRL Rwy 09-27 preset €3 (2 ¢ on low ints: to increase ints and ACTIVATE HIRL Rwv 15-33. PAPI +3 Rwy 09, VASI Rwy 27, Rwy 15, PAPI Rwy 33; REIL Rwy 15, Rwy 33, 43 and Rwy 27 and MALSR Rwy 09-CTAF. WEATHER DATA SOURCES: ASOS 126.825 (715) 362-7980. HIWAS 109.2 COMMUNICATIONS: CTAF/UNICOM 123.0 RCO 122.6 (GREEN BAY RADIO) R MINNEAPOLIS CENTER APP/DEP CON 133.65 AIRSPACE: CLASS E svc Mon-Fri 1200-0400Z‡, Sat 1200-0130Z‡, Sun 1600-0400Z‡ other times CLASS G. RADIO AIDS TO NAVIGATION: NOTAM FILE RHI. (L) VORTAC 109.2 RHI Chan 29 N45°38.03′ W89°27.47′ at fld. 1590/2E. HIWAS. VOR portion unusable 171°-228° byd 10 NM, 310°-340° byd 20 NM blo 5000′. DME unusable byd 35 NM blo 35001 ARSHA NDB (LOM) 272 RH N45°37.69′ W89°37.13′ 087° 6.4 NM to fld. ILS 111.3 I-RHI Rwv 09. Class IE. ILS unmonitored. RICE LAKE RGNL-CARL'S FLD (RPD) 5 SW UTC-6(-5DT) N45°25.21′ W91°46.40′ CREEN RAY 1109 B S4 FUEL 100LL, JET A NOTAM FILE RPD H-21 I-141 IΛP RWY 01-19: H6700X100 (ASPH) S-30, D-30 MIRL RWY 01: MALSR. PAPI(P2L)—GA 3.0° TCH 38'. Thid dspicd 200'. Rgt tfc. RWY 19: REIL. PAPI(P2L)-GA 3.0° TCH 38'. RWY 13-31: H3500X75 (ASPH) MIRL RWY 13: REIL. PAPI(P2L)—GA 3.15° TCH 41'. Trees. RWY 31: REIL. PAPI(P2L)—GA 3.0° TCH 33'. Trees. Rgt tfc. AIRPORT REMARKS: Attended 1200-0300Z‡. Rwy 19 PAPI OTS indef. MIRL Rwy 01-19 preset on low ints dusk-dawn, to increase ints and ACTIVATE REIL Rwy 01 and Rwy 19, PAPI Rwy 01 and Rwy 19 and MALSR Rwy 01—CTAF. WEATHER DATA SOURCES AWOS-3 120.525 (715) 458-4481.

COMMUNICATIONS: CTAF/UNICOM 122.7 RCO 122.3 (GREEN BAY RADIO)

R MINNEAPOLIS CENTER APP/DEP CON 125.3

RADIO AIDS TO NAVIGATION: NOTAM FILE RPD.

(T) VORW/DME 110.0 RPD Chan 37 N45°24.91' W91°46.68' at fld. 1092/1E, OTS indef. DME unusable 050°-080° byd 20 NM blo 2800'.

WICKR NDB (LOM) 221 RP N45°19.05′ W91°48.17′ 010° 6.3 NM to fld.

IIS 108 3 Rwy 01. LOM WICKR NDB. ILS unmonitored indef.

RICHARD I BONG (See SUPERIOR)

RICHLAND (See RICHLAND CENTER)

RICHLAND CENTER

RICHLAND (93C) 4 SE UTC-6(-5DT) N43°17.00′ W90°17.90′

CHICAGO L-28G

742 B FUEL 100LL NOTAM FILE GRB RWY 17-35: H3200X60 (ASPH)

S-12.5 MIRL 0.6% up N.

IAP

RWY 17: REIL. PAPI(P2L)—GA 3.5° TCH 33'. Trees. RWY 35: REIL. PAPI(P2L)-GA 3.5° TCH 24'. Tree.

RWY 09-27: 1500X100 (TURF) 0.7% up E. RWY 27: Tree.

RWY 09: Road.

AIRPORT REMARKS: Attended irregularly. Call 608-647-8804 for fuel. Ultralight activity on and invof arpt. Deer on and invof arpt, Rwy 09-27 not plowed; confirm winter and spring rwy conditions with arpt manager 608-647-8804. Rwy 09-27 marked with white and orange panels. ACTIVATE MIRL Rwy 17-35, PAPI and REIL Rwys 17 and 35-CTAF.

COMMUNICATIONS: CTAF 122.9

R CHICAGO CENTER APP/DEP CON 133.3

RADIO AIDS TO NAVIGATION: NOTAM FILE LNR.

LONE ROCK (L) VORW/DME 112.8 LNR Chan 75 N43°17.66′ W90°07.99′ 265° 7.3 NM to fld. 1184/0E.

RIO

GILBERT FLD (94C) 1 W UTC-6(-5DT) N43°27.00′ W89°15.01′

CHICAGO

TPA-1925(1000) NOTAM FILE GRB

RWY 09-27: 1092X65 (TURF)

RWY 09: Trees. RWY 27: Trees.

AIRPORT REMARKS: Unattended. Confirm winter rwy conditions and snow removal call 920-429-3513. E twy CLOSED indef. Rwy 09-27 thlds marked with orange cones.

COMMUNICATIONS: CTAF 122.9

ROCHESTER

FOX RIVER (96C) 2 NW UTC-6(-5DT) N42°45.00′ W88°15.06′ CHICAGO

NOTAM FILE GRB 822 RWY 01-19: H2500X36 (ASPH)

RWY 01: Trees. RWY 19: Trees.

AIRPORT REMARKS: Attended Mon-Fri 1200-2230Z‡. Rwy 01-19 rwy asph is 10'-15' wider last 300' each end.

COMMUNICATIONS: CTAF 122.9

ROCK RIVER N43°10.42′ W88°43.52′ NOTAM FILE RYV.

CHICAGO

NDB (MHW) 371 RYV at Watertown Muni. NDB unmonitored 0500-1000Z‡.

L-28H

RUSK CO (See LADYSMITH)

SAUK-PRAIRIE (See PRAIRIE DU SAC)

SAWYER CO (See HAYWARD)

SEELEY N46°06.73′ W91°23.08′ NOTAM FILE GRB.

GREEN BAY 1-141

NDB (MHW) 344 SLY 205° 5.8 NM to Sawyer Co.

NDB unusable bvd 15 NM.

SHAWANO MUNI (EZS) 1 NE UTC-6(-5DT) N44°47.24′ W88°33.60′ GREEN BAY 813 B S4 FUEL 100LL NOTAM FILE GRB I-31A RWY 11-29: H3900X75 (ASPH) S-17 ΙΔΡ MIRI RWY 29: Trees. RWY 11. Road 03 63 RWY 17-35: H2225X60 (ASPH) MIRL €3 C3 Base **43** Shawano Lake RWY 17: Road. RWY 35: Trees. Œ CZ CZ AIRPORT REMARKS: Attended 1400Z‡-dusk. Waterfowl and deer on and invof arpt. ACTIVATE MIRL Rwys 11-29 and 17-35-CTAF. WEATHER DATA SOURCES: AWOS-3 118.65 (715) 526-2967. COMMUNICATIONS: CTAF/UNICOM 122.8 **(3** a R GREEN BAY APP/DEP CON 119.4 (1130-0530Z‡) (3 R MINNEAPOLIS CENTER APP/DEP CON 125.55 (0530-1130Z‡) Œ Δ2 GCO 121.725 (FLIGHT SERVICES) 0 RADIO AIDS TO NAVIGATION: NOTAM FILE GRB. ପ୍ରପ୍ର GREEN BAY (H) VORTACW 115.5 GRB Chan 102 N44°33.31' W88°11.69' 311° 20.9 NM to fld. 767/1E. HIWAS. €3 ଓ ଓ ଓ €3 €3 Λ WATERWAY ALL WAY: 12,000X1000 (WATER) 03 03 SEAPLANE REMARKS: Seaplane waterway CLOSED early Nov to early May. " I'G" -- """ 1 call arpt manager 715-526-2465 for conditions. Rotating bcn €3 €3 ¢

SHEBOYGAN CO MEML (SBM) 3 NW UTC-6(-5DT) N43°46.19' W87°51.10' NOTAM FILE SRM

755 B S4 **FUEL** 100LL, JET A TPA—1554(800) RWY 03-21: H6802X100 (CONC-GRVD) S-60, D-60 HIRL

located on arpt ½ mile SW of sealane. Seaplane base has floating

RWY 03: REIL. PAPI(P4R)—GA 3.0° TCH 52'. Trees.

RWY 21: MALSR. PAPI(P4L)-GA 3.0° TCH 49'.

RWY 13-31: H5000X75 (ASPH) S-23 D-32 MIRI 0.3% un NW

RWY 13: PAPI(P4L)-GA 3.0° TCH 40'. Trees.

tie downs and beaching ramp.

RWY 31: PAPI(P4L)-GA 3.0° TCH 40'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1200Z‡-dusk, Sat-Sun dawn-dusk. Ultralight activity on and invof arpt. Waterfowl and deer on and invof arpt. Twy A clsd indef. Rwy 03 REIL OTS indef. Rwy 21 MALSR OTS indef. Rwy 13 PAPI OTS indef. For services call 920-467-6151-frequency 129.85 or 920-467-0370-frequency 131.35. HIRL Rwy 03-21 and MIRL

Rwy 13-31 preset low ints, to increase ints and ACTIVATE PAPI Rwy 21; REIL Rwy 03 and MALSR Rwy 21-CTAF.

WEATHER DATA SOURCES: ASOS 110.0 FAH (920) 467-0744.

COMMUNICATIONS: CTAF/UNICOM 122.7

FALLS RCO 122.1R 110.0T (GREEN BAY RADIO)

R MILWAUKEE APP/DEP CON 127.0 CLNC DEL 127.375 GCO 121.725 (FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE OSH.

OSHKOSH (L) VORTAC 111.8 OSH Chan 55 N43°59.43′ W88°33.36′ 111° 33.3 NM to fld. 780/2E. FALLS (L) VOR/DME 110.0 FAH Chan 37 N43°46.13′ W87°50.93′ at fld. 744/2W. NOTAM FILE SBM. ASOS. ILS/DME 110.7 I-HEV Chan 44 Rwy 21.

æ

CHICAGO

H-2J, L-28H IAP

Ø *(*3

SHELL LAKE MUNI (SSO) 1 SE UTC-6(-5DT) N45°43.88' W91°55.24'

1233 B NOTAM FILE GRB

RWY 14-32: H3711X75 (ASPH) MIRL

> RWY 14: PAPI(P2L)-GA 4.0° TCH 21'. Thid dsplcd 619'. Trees. RWY 32: REIL. PAPI(P2L)-GA 3.0° TCH 21'. Thid dsplcd 211'. Boat.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 14: TORA-3711 TODA-3711 ASDA-3500 LDA-2881 RWY 32: TORA-3286 TODA-3711 ASDA-3711 LDA-3500

AIRPORT REMARKS: Unattended. Birds on and invof arpt. ACTIVATE MIRL Rwy 14-32; PAPI Rwy 14 and Rwy 32; REIL Rwy 32-CTAF.

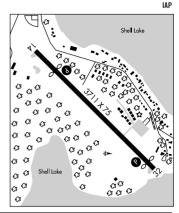
COMMUNICATIONS: CTAF/UNICOM 122.8

RICE LAKE RCO 122.3 (FLIGHT SERVICES)

R MINNEAPOLIS CENTER APP/DEP CON 126.45

GCO 121.725 (GREEN BAY FSS) RADIO AIDS TO NAVIGATION: NOTAM FILE RPD.

RICE LAKE (T) VORW/DME 110.0 RPD Chan 37 N45°24.91' W91°46.68' 341° 19.9 NM to fld. 1092/1E. OTS indef.



SHIOCTON (W34) 1 NE UTC-6(-5DT) N44°27.28′ W88°33.71′

GREEN BAY

GREEN BAY

1-141

769 NOTAM FILE GRB

RWY 18-36: 2340X110 (TURF)

RWY 18: REIL(NSTD). Trees. RWY 36: REIL(NSTD). Antenna.

RWY 09-27: 1415X110 (TURF)

RWY 09: Tree. RWY 27: Road.

AIRPORT REMARKS: Unattended. Arpt CLOSED 15 Mar-25 Apr. Parachute Jumping. Ultralight activity on and invof arpt. Deer activity on and invof arpt. Rwy 09-27 marked by orange and white barrels. Rwy 18-36 marked with orange and white barrels. Rwy 18-36 NSTD REIL; solar powered. Rwy 18-36 cones marking drain ditch W of rwy where Rwy 09-27 crosses.

COMMUNICATIONS: CTAF 122.9

SIREN N45°49.23′ W92°22.47′ NOTAM FILE RZN. GREEN BAY L-141

(L) VOR/DME 109.4 RZN Chan 31 at Burnett Co. 987/2E. HIWAS. VOR/DME unusable 030°-170° byd 20NM blo 3400′. VOR unusable 011°-029° byd 20NM 275°-330°.

171°-180° byd 35 NM blo 3400'.

180°-200° byd 30 NM blo 3500'.

200°-260° bvd 25 NM blo 3800'. RCO 122.1 R 109.4T (GREEN BAY RADIO) 260°-350° byd 30 NM blo 3300'.

350°-029° byd 35 NM blo 3000'.

SIREN

BURNETT CO (RZN) 3 N UTC-6(-5DT) N45°49.36′ W92°22.35′

989 B FUEL 100LL, JET A. MOGAS NOTAM FILE RZN

RWY 04-22: H3900X75 (ASPH) S-8 MIRL

RWY 04: REIL. PAPI(P2L)-GA 3.45 TCH 27'. Trees.

RWY 22: REIL. PAPI(P2L)-GA 3.0 TCH 28'. Road. RWY 13-31: H3500X75 (ASPH) S-8 MIRL

RWY 13: REIL. PAPI(P2L)-GA 3.0 TCH 28'. Trees.

RWY 31: REIL. PAPI(P2L)—GA 3.45 TCH 27'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400-2230Z‡, Sat-Sun

1500-2200Z‡. Fuel 24 hr self svc. Occasional deer and bear on rwv. Rwv 13 and Rwv 31 REIL OTS indef. ACTIVATE MIRL Rwvs 04-22 and 13-31; REIL Rwys 04-22 and 13-31-CTAF.

WEATHER DATA SOURCES: AWOS-3 118.325 (715) 349-8563. HIWAS 109.4 RZN.

COMMUNICATIONS: CTAF/UNICOM 122.8

SIREN RCO 122.1R 109.4T (GREEN BAY RADIO)

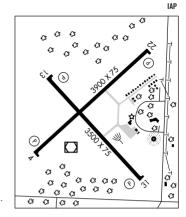
(R) MINNEAPOLIS CENTER APP/DEP CON 121.05

RADIO AIDS TO NAVIGATION: NOTAM FILE RZN.

SIREN (L) VOR/DME 109.4 RZN Chan 31 N45°49.23'

W92°22.47' at fld. 987/2E. HIWAS.

BIG DOCTOR NDB (MHW) 203 BXR N45°49.28' W92°21.99' at fld. NOTAM FILE GRB. VFR only.



SOLON SPRINGS

NORTH COUNTRY SPB (SS1) 1 E UTC-6(-5DT) N46°22.19′ W91°47.88′ **GREEN BAY**

GREEN BAY

GREEN RAY

L-141

1000 NOTAM FILE GRB

WATERWAY 04-22: 6000X500 (WATER)

WATERWAY 09-27: 3500X500 (WATER)

SEAPLANE REMARKS: Unattended. COMMUNICATIONS: CTAF 122.9

SOLON SPRINGS MUNI (OLG) 3 S UTC-6(-5DT) N46°18.89′ W91°48.98′ 1102 B S2 FUEL 100LL TPA-2102(1000) NOTAM FILE GRB

RWY 01-19: H3100X60 (ASPH) S-27 LIRL

RWY 01: Trees. RWY 19. Trees AIRPORT REMARKS: Unattended. Numerous deer on arpt. Acft mechanic on call 715-399-2171. LIRL Rwy 01-19 preset low ints dusk-dawn, ACTIVATE higher ints-CTAF. Twy to ramp from rwy

marked by reflectors COMMUNICATIONS: CTAF 122.9

(R) DULUTH APP/DEP CON 125.45 (1200-0500Z‡)

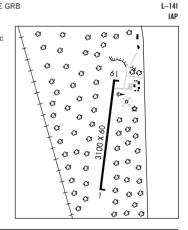
R MINNEAPOLIS CENTER APP/DEP CON127.9 (0500-1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE DLH.

DULUTH (H) VORTACW 112.6 DLH Chan 73 N46°48.13'

W92°12.17′ 146° 33.3 NM to fld. 1428/5E. HIWAS. NDB (MHW) 388 OLG N46°19.02′ W91°48.84′ at fld. NOTAM

FILE GRB. Unmonitored, SHUTDOWN.



SOUTHERN WISCONSIN RGNL (See JANESVILLE)

SPARTA

SPARTA/FORT McCOY (CMY)(KCMY) CIV/MIL 3 NE UTC-6(-5DT) N43°57.50′ W90°44.27′ 837 B FUEL 100LL NOTAM FILE CMY

RWY 11-29: H4708X100 (ASPH) MIRL

CHICAGO 1-28G ΙΔΡ

RWY 11: REIL. Trees. RWY 29: REIL, PVASI(PSIR)—GA 3.0° TCH 65', Thid dspicd 425', Road,

RWY 01-19: H4295X50 (ASPH) PCN 13 F/B/W/T MIRL 0.3% up S

RWY 01: Thid dsplcd 1375'. Road. RWY 19: Trees.

MILITARY SERVICE: FUEL J8 (Mil) (NC-100LL PPR) PPR C608-388-3721/3713, DSN 280-3721/3713.

AIRPORT REMARKS: Attended 1330-2200Z±. Except national training holiday, PPR for fuel; call 608-269-3122.

Occasional wild game and birds on and invof arpt. ACTIVATE MIRL Rwy 01-19 and Rwy 11-29-CTAF. REIL Rwy 11 and Rwy 29 opr only when rwy lgts set on high ints.

MILITARY REMARKS: CAUTION Intermittent heavy C-130/high performance opr. Use advisory syc if avbl.

WEATHER DATA SOURCES: AWOS-3 118.375 (608) 269-0724.

COMMUNICATIONS: CTAF 124.6

- R VOLK APP/DEP CON 135.25 290.8 (Mon-Fri 1400-2200Z‡ except holidays), other times ctc,
- R CHICAGO CENTER APP/DEP CON 133.3 380.35

McCOY TOWER 38.5 124.6 241.0 (Mon-Fri 1400-2200Z‡ exc Federal holidays) RANGE 43.15 46.8 124.6 247.4 GCO 121.725 (FLIGHT SERVICES)

AIRSPACE: CLASS D Mon-Fri 1400-22007± exc Federal holidays, other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE LSE.

LA CROSSE (T) VORW/DME 108.4 LSE Chan 21 N43°52.57′ W91°15.36′ 075° 23 NM to fld. 650/2E.

McCOY NDB (MHW) 412 CMY N43°56.27′ W90°38.51′ 287° 4.3 NM to fld. NOTAM FILE CMY.

SPOONER

NEST OF EAGLES (1H9) 3E UTC-6(-5DT) N45°50.14' W91°48.17'

GREEN RAY

1120 B NOTAM FILE GRB Not insp.

RWY 01-19: 3600X100 (TURF)

RWY 19: Trees. RWY 01: Trees.

AIRPORT REMARKS: Unattended. Snow not plowed winter months, turf cut and maintained summer months.

COMMUNICATIONS: CTAF 122 9

STEVENS POINT MUNI (STE) 3 NE UTC-6(-5DT) N44°32.71′ W89°31.82′ 1110 B S4 **FUEL** 100LL, JET A TPA-2110(1000) NOTAM FILE STE

GREEN BAY H-2J, L-14J IAP N

43

RWY 03-21: H6028X120 (ASPH) S-30, D-75, DT-195 HIRI RWY 03: REIL, PAPI(P2L)—GA 3.0° TCH 38', Trees.

RWY 21: MALSR. PAPI(P2L)-GA 3.0° TCH 37'. Tree.

RWY 12-30: H3635X75 (ASPH) S-9 D-75 HIRL

RWY 12. Road RWY 30: Trees.

AIRPORT REMARKS: Attended dalgt hrs. Fuel 24 hr self svc. Deer and migratory waterfowl on and invof arpt. ACTIVATE HIRL Rwy 03-21 and Rwy 12-30 and MALSR Rwy 21 and REIL Rwy 03 and PAPI

Rwys 03 and 21-CTAF.

WEATHER DATA SOURCES: AWOS-3 119.275 (715) 344-5960.

HIWAS 110.6 STE.

COMMUNICATIONS: CTAF/UNICOM 122.7

RCO 122.1R 110.6T (GREEN BAY RADIO)

R MINNEAPOLIS CENTER APP/DEP CON 124.4

RADIO AIDS TO NAVIGATION: NOTAM FILE STE.

(L) VORTAC 110.6 STE Chan 43 N44°32.60' W89°31.83' at fld. 1110/2E. HIWAS.

DME unusable byd 35 NM blo 3000'.

ILS/DME 111.35 I-STE Chan 50Y Rwy 21.

43 œ ç €3 OG C ଦ୍ୟ ପ୍ର ଜ୍ୟୁ ପ୍ର 000 ~c; C3 C3 C3 C3 C3 C3 æ **(3 ⊘**3 03 03 % /00 C 63 63 Œ €3 (3 C ~3 €3 *๎*๘๘๎๘๎๘๎ 63 GG C a_a ଝଟଟ~ 3

STOUGHTON

QUAMS MARINA SPB (99C) 3 NW UTC-6(-5DT) N42°57.07′ W89°16.26′

CHICAGO

843 FUEL MOGAS TPA-1843(1000) NOTAM FILE GRB

WATERWAY ALL WAY: 15000X4000 (WATER)

SEAPLANE REMARKS: Attended Apr-Oct Mon-Fri 1400-0000Z‡, Sat 1500-2300Z‡, Sun 1500-2200Z‡, Nov-Mar

irregularly

COMMUNICATIONS: CTAF 122.9

STURGEON BAY N44°50,21′ W87°25,35′ NOTAM FILE SUE.

GREEN BAY L-31B

NDB (MHW) 414 SUE at Door Co Cherryland.

STURGEON BAY

DOOR CO CHERRYLAND (SUE) 2 W UTC-6(-5DT) N44°50.62′ W87°25.29′

GREEN RAY

725 B S4 FUEL 100LL, JET A NOTAM FILE SUE

L-31B

RWY 02-20: H4600X75 (ASPH) S-16, D-22 MIRL 0.4% up S RWY 02: LDIN. REIL. PAPI(P4L)—GA 3.0° TCH 32'. Road.

IAP RWY 20: REIL. PAPI(P4L)-GA 3.0° TCH 46'. Trees.

RWY 10-28: H3199X75 (ASPH) S-16, D-22 MIRI

RWY 28: REIL, PAPI(P4L)—GA 3.0° TCH 37', Trees.

RWY 10: REIL. PAPI(P4L)—GA 3.0° TCH 31'. Road. AIRPORT REMARKS: Attended Mon-Sat 1300-2200Z‡, Sun 1600-2200Z‡. Except summer hrs from Labor

Day—Memorial Day Fri and Sat 1300-0000Z±. Sun 1500-2200Z±. After hrs fueling avbl. ctc 920-743-6952. Be Alert: No line of sight Rwy 02 to Rwy 20. Deer, turkeys and seagulls occasionally on arpt. Ultralight activity on and invof arpt. Group of five twrs approximately 4 NM northeast, tallest twr is 1300' MSL/489' AGL. ACTIVATE MIRL Rwys 02-20 and 10-28; PAPI Rwys 02. 20. 10 and 28; REIL Rwys 02; 20; 10 and 28; LDIN Rwy 02-CTAF.

WEATHER DATA SOURCES: AWOS-3 128.325 (920) 743-7087

COMMUNICATIONS: CTAF/UNICOM 122.7

(R) GREEN BAY APP/DEP CON 119.25 (1130-0530Z‡) RMINNEAPOLIS CENTER APP/DEP CON 125.55 (0530-1130Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE GRB.

GREEN BAY (H) VORTACW 115.5 GRB Chan 102 N44°33.31′ W88°11.69′ 061° 37.3 NM to fld. 767/1E.

FICHY NDB (LOM) 224 II N44°45.36′ W87°26.95′ 016° 5.4 NM to fld. Unmonitored.

STURGEON BAY NDB (MHW) 414 SUE N44°50.21′ W87°25.35′ at fld. NOTAM FILE SUE.

SDF 111.9 Rwy 02. LOM FICHY NDB. SDF unusable byd 12° left or right of course. Unmonitored.

STIIRTEVANT

SYLVANIA (C89) 3 W UTC-6(-5DT) N42°42.20′ W87°57.54′

CHICAGO

785 B S4 FUEL 100LL TPA-1585(800) NOTAM FILE GRB

RWY 08L-26R: 2343X120 (TURF) MIRI

RWY 26R: Road. RWY 08L: Road.

RWY 08R-26L: H2272X38 (ASPH) MIRL (NSTD)

RWY NRR. Road RWY 26L: PAPI(P2L), Thid dspicd 140', Road,

AIRPORT REMARKS: Attended dalgt hrs. Parachute activity on and invof arpt. Ultralight activity on arpt. ACTIVATE MIRL Rwy 08R-26L and PAPI Rwy 26L-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

SUPFRIOR

RICHARD | BONG (SUW) 3 S UTC-6(-5DT) N46°41.38' W92°05.68'

CREEN RAY

674 B S4 FUEL 100LL, JET A NOTAM FILE SUW

H-21, L-141

ΙΔΡ

MIRL RWY 03-21: H5100X75 (ASPH) RWY 03: REIL. PAPI(P4L)—GA 3.0° TCH 28'. Pole.

RWY 21. RFII Trees

RWY 13-31: H4000X75 (ASPH) MIRL

RWY 13: REIL. Trees. RWY 31: REIL. PAPI(P4L)-GA 4.0°. Road.

AIRPORT REMARKS: Attended 1400Z‡-dusk. Parachute Jumping. Deer on and invof arpt. ACTIVATE MIRL Rwys 13-31 and 03-21 and REIL Rwys 13-31 and 03-21-CTAF.

WEATHER DATA SOURCES: AWOS-3 118.875 (715) 394-0283.

COMMUNICATIONS: CTAF/UNICOM 122.7

(R) DULUTH APP/DEP CON 125.45 (1200-0500Z‡) CLNC DEL 124.8

R MINNEAPOLIS CENTER APP/DEP CON127.9 (0500-1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE DLH.

DULUTH (H) VORTACW 112.6 DLH Chan 73 N46°48.13′ W92°12.17′ 141° 8.1 NM to fld. 1428/5E.

HIWAS.

BONG NDB (MHW) 260 SUW N46°41.48′ W92°06.21′ at fld. NOTAM FILE SUW.

SURING

PISO (7P5) 4.3 NW UTC-6(-5DT) N45°03.92′ W88°25.59′

891 FUEL MOGAS TPA—1391(500) NOTAM FILE GRB

RWY 01-19: 2080X55 (TURF)

RWY 01: Trees. RWY 19: Trees.

AIRPORT REMARKS: Unattended. Fuel avbl and local full svc gas station N end of field during dalgt hrs. Rwys not plowed and arpt CLOSED Nov 15 thru Mar 31. Rwy 18–36 south half of rwy severely rutted. Rwy 01–19 marked with orange barrels.

COMMUNICATIONS: CTAF 122.9

SWEETWATER BAY SPB (See OCONTO)

SYLVANIA (See STURTEVANT)

TAYLOR CO (See MEDFORD)

TEELS N42°54.54′ W88°02.46′ NOTAM FILE MKE.

NDB (MH/LOM) 242 GM 072° 6.8 NM to General Mitchell Intl. Unmonitored.

CHICAGO L-28H. A

GREEN RAY

THREE CASTLES AIRPARK (See WONEWOC)

THRFF LAKES

THREE LAKES MUNI (4ØD) 3 SE UTC-6(-5DT) N45°47.41′ W89°07.26′

47.41' W89°07.26' GREEN BAY

1636 B TPA—2436(800) NOTAM FILE GRB

RWY 03-21: 3400X120 (TURF) LIRL(NSTD)

RWY 03: Trees. RWY 21: PAPI(P2L)—GA 3.0° TCH 24'.

 $\label{eq:AIRPORT REMARKS: Unattended. Rwy 03-21 not plowed Nov-May. 1683' AGL, 3327' MSL twr 8.5 NM SW. Rwy 03-21 ends marked with yellow cones.$

COMMUNICATIONS: CTAF/UNICOM 122.7

TIMMERMAN N43°06.59′ W88°02.24′. NOTAM FILE MWC.

CHICAGO

(L) VOR/DME 112.5 LJT Chan 72 at Lawrence J. Timmerman. 737/2W.

VOR unusable byd 25 NM 030°-230° blo 5500′, 230°-310 blo 6500′, 310°-030° blo 4500′.

DME unusable 120° – 200° byd 25 NM blo 3500', 200° – 315° byd 20 NM blo 5000', 315° – 120° byd 25 NM blo 4000'.

RCO 123.6R 112.5T (GREEN BAY RADIO)

TOMAH

BLOYER FLD (Y72) 1 E UTC-6(-5DT) N43°58.57′ W90°28.84′

CHICAGO L-28G

966 B **FUEL** 100LL NOTAM FILE GRB **RWY 07–25**: H3900X75 (ASPH) MIRL

RWY 07: REIL. PAPI(P2L)—GA 3.0° TCH 33'. Tree.

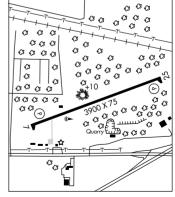
RWY 25: REIL. PAPI(P2L)-GA 3.0° TCH 35'. Trees.

AIRPORT REMARKS: Unattended. Rwy 07–25 E 300' has 1 inch dips. For fuel call 608–372–3125. MIRL Rwy 07–25 preset on low ints; to increase ints and ACTIVATE REIL Rwy 07 and Rwy 25—CTAF.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE PNM.

NODINE (H) VORTAC 117.9 ODI Chan 126 N43°54.74′ W91°28.05′ 084° 43.0 NM to fld. 1282/1E.



TOMAHAWK RGNL (TKV) 3 W UTC-6(-5DT) N45°28.16′ W89°48.34′

1487 B S4 FUEL 100LL, JET A NOTAM FILE TKV

GREEN BAY 1-141

RWY 09-27: H3998X75 (ASPH) S-26 MIRL 0.5% up E

ΙΔΡ

RWY 09: REIL. PAPI(P2L)—GA 3.0° TCH 25'. Road. RWY 27: REIL. PAPI(P2L)—GA 3.0° TCH 21'. Trees.

AIRPORT REMARKS: Attended continuously. Airframe and powerplant repairs by prior arrangement call 715-453-2264 or 453-3482. Deer on and invof arpt. ACTIVATE MIRL Rwy 09-27, PAPI and REIL Rwy 09 and Rwy 27-CTAF. WEATHER DATA SOURCES: AWOS-3 118.25 (715) 453-5716.

COMMUNICATIONS: CTAF/UNICOM 122.8

MINNEAPOLIS CENTER APP/DEP CON 133.65

RADIO AIDS TO NAVIGATION: NOTAM FILE RHI.

RHINELANDER (L) VORTAC 109.2 RHI Chan 29 N45°38.03′ W89°27.47′ 234° 17.7 NM to fld. 1590/2E. **HIWAS**

TRI-COUNTY RGNL (See LONE ROCK)

VERONA (W19) 1 E UTC-6(-5DT) N42°59.37′ W89°30.57′ CHICAGO

CHICAGO

L-28G

960 TPA-1560(600) NOTAM FILE GRB

RWY 03-21: 2190X90 (TURF)

RWY 03. Trees RWY 21: Trees.

RWY 04-22: 1897X85 (TURF)

RWY 04: Road. Rgt tfc. RWY 22: Trees.

AIRPORT REMARKS: Unattended. Arpt surfaces not plowed for snow. Confirm surface conditions with arpt manager 608-845-7239. Deer on and invof arpt. Ultralight activity on and invof arpt. Balloon ops normally early AM and PM—dalgt hrs. Rwy 03-21 900' from S end rough. Rwy 04-22 marked with reflectors no markings on S end of rwy. Rwy 04-22 4-6' fence and berm 20' S of rwy edge parallels rwy. Avoid overflights of institution 0.5N and Village Park 1.0W of arpt.

COMMUNICATIONS: CTAF 122.9

VINCENT (See GENOA CITY)

RWY 11-29: H3346X60 (ASPH)

VIROQUA MUNI (Y51) 2 N UTC-6(-5DT) N43°34.76′ W90°53.79′ S-12

1292 B FUEL 100 NOTAM FILE GRB

HIRL 0.7% up SE

RWY 29. Trees

RWY 02-20: 2555X90 (TURF) 1.0% up SW

RWY 20. Trees

AIRPORT REMARKS: Unattended. 24 hr fuel avbl. Rwy 02-20 CLOSED Nov 15 thru Apr 15. Rwy 02-20 has sharp 20' drop-off each end.

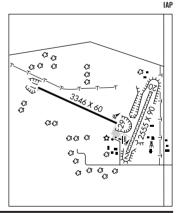
Rwy slopes downhill to the N approximately 1.5%. Rwy 02-20 marked with yellow cones. Rwy 11-29 HIRLS on low

ints-increase ints on CTAF. COMMUNICATIONS: CTAF 122.9

MINNEAPOLIS CENTER APP/DEP CON 128.6

RADIO AIDS TO NAVIGATION: NOTAM FILE LSE.

LA CROSSE (T) VORW/DME 108.4 LSE Chan 21 N43°52.57' W91°15.36' 137° 23.7 NM to fld. 650/2E.



912 B TPA—See Remarks NOTAM FILE GRB

RWY 09-27: H9000X150 (ASPH-CONC-GRVD)

VOLK FLD (VOK) (KVOK)

ARRESTING GEAR/SYSTEM

RWY N4. Trees

COMMUNICATIONS: CTAF 122.9

RWY 22: Trees.

RWY 09: MALSR PAPI(P4L)

RWY 09 HOOK BAK-12B(B) (1260') HOOK BAK-12B(B) (1250') RWY 27 MILITARY SERVICE: LGT ACTIVATE-ALS, HIRL, PAPI Rwy 09-27-CTAF or 239.25. Rwy 27 PAPI NSTD located rgt side. A-GEAR Normal BAK-12B(B) configuration: apch end down, dep end up; 20 min prior notice to reconnect apch end JASU (AM32A-60A) 6(A/M32A-86) FUEL J8 Avbl limited, expect possible gnd delay for req exceeding 10.000 gal. FLUID LPOX LOX TRAN ALERT Extremely limited. MILITARY REMARKS: Opr Mon-Fri 1400-2200Z‡ except holidays, subject short notice change in support of NGB validated flying. Check NOTAM for current afld hrs. See FLIP AP/1 Supplementary Arpt Remarks. RSTD Recommend use as emergency arpt only when rgr to land as soon as possible. PPR ctc Volk Fld DSN 871-1205, C608-427-1205. Issued PPR valid for ETA +/- 1 hr. Early/late arr/dep must be coordinated. After hr re-coordination or cancel will be passed to Base OPS standby personnel C608-343-0104. Twy G ltd to F-16 acft or smaller and helicopter traffic. CAUTION FMO-19 automated wx obsn avbl 24 hr. DSN 871-1066. C 608-427-1066. When wind is from S/SW expect possible Low Level Wind Shear 1 to 3 NM on final to Rwy 27. Due to tactical acft rqr, BAK-12 cable may be in position for Rwy 09-27 simultaneously. Twy E and F unlgtd, unlimited daytime VFR use, Follow Me rgr for day IFR and night IFR/VFR use. TFC PAT Left tfc Rwy 09. TPA-Helicopter rectangular 1500(588). MISC First 1600' Rwy 09 and first 1600' Rwy 27 grooved concrete, mid 5800' grooved asphalt, Standard USAF RSRS applied. COMMUNICATIONS: SFA CTAF 127.5 ATIS 120.475 257.85 PTD 372.2 (R) APP/DEP CON 135.25 290.8 (Mon-Fri 1400-1600Z‡, except holidays, subject short notice change in support of NGB validated flying, check NOTAMS for current afld hrs), other time ctc R CHICAGO CENTER APP/DEP CON 133.3 257.92 TOWER 127.5 239.25 (Mon-Fri 1400-16007±, except holidays, subject short notice change in support of NGB validated flying, check NOTAMS for current afld hrs.) GND CON 121.9 275.8 SHEBOYGAN RANGE 260.4 HARDWOOD RANGE 132.025 297.775 358.8 AIRSPACE: CLASS D syc Mon-Fri 1400-0600Z except holidays subject short notice change in support of NGB validated flying, other times CLASS G. RADIO AIDS TO NAVIGATION: NOTAM FILE GRB. (I) TACAN Chan 41 VOK (110.4) N43°56.57' W90°15.54' at fld. 961/0E. Unmonitored when twr clsd. No NOTAM MP Mon 1400-1530Z‡. TACAN unusable byd 20NM blo 4,000'. ILS 108.5 I–VOK Rwv 27. Class IE. Unmonitored when twr clsd. Back course unusable. No NOTAM MP: Localizer Mon 1930-2030Z‡; Glide slope Mon 2030-2130Z‡. COMM/NAV/WEATHER REMARKS: Limited Special Rules Area svc avbl, ctc Radar Approach Control at DSN 871-1779, C608-427-1779 WALWORTH BIG FOOT AIRFIELD (7V3) 3 W UTC-6(-5DT) N42°31.54′ W88°39.18′ CHICAGO TPA-1751(800) NOTAM FILE GRB RWY 09-27: 2912X85 (TURF) RWY N9. Tree RWY 18-36: 2108X100 (TURF) LIRL (NSTD) AIRPORT REMARKS: Unattended. Rwys not plowed winter months—open to ski equipped acft only. Rwy 18-36 NSTD LIRL; Rwy 18 thid lgts are 45' S of rwy markers. Rwy 18-36 and Rwy 09-27 thids marked with red half barrels. ACTIVATE NSTD LIRL Rwv 18-36-123.75. **COMMUNICATIONS: CTAF 122.9** WASHINGTON ISLAND (2P2) 1 S UTC-6(-5DT) N45°23.17′ W86°55.47′ **GREEN BAY** B TPA-1652(1000) NOTAM FILE GRB RWY 14-32: 2230X150 (TURF) LIRL RWY 14: Road. RWY 32: Trees. RWY 04-22: 1300X125 (TURF)

ANG 1N UTC-6(-5DT) N43°56.35′ W90°15.19′

RWY 27: ALSF1. PAPI(P4R). Rgt tfc.

Not insp

PCN 97 R/B/W/T HIRL

CHICAGO

NIAP AD

H-21 1-28G

AIRPORT REMARKS: Unattended. Rwy 14–32 +12' rise in rwy elevation NW 900'. Numerous flocks of waterfowl and deer on and invof arpt. Rwys 14–32 and 04–22 plowed when snow is over 3 inches. Rwy 04–22 slopes downhill to the NE. Rwy 04 thld +20' higher than Rwy 22 thld. ACTIVATE LIRL Rwy 14–32 and rotating bcn—CTAF.

WATERTOWN MUNI (RYV) 0.S UTC-6(-5DT) N43°10.18′ W88°43.39′ CHICAGO 833 B S4 FUEL 100LL, JET A OX 2 NOTAM FILE RYV I-28H RWY 05-23: H4429X75 (ASPH) S-30, D-60 MIRL ΙΔΡ RWY 05: REIL. PAPI(P2L)—GA 3.0° TCH 50'. Thid dspicd 190'. Tree. Rgt tfc. RWY 23: REIL. PAPI(P2L)-GA 3.0° TCH 45'. Tree. RWY 11-29: H2801X75 (ASPH) S-30 MIRL 0.4% up SE RWY 11: Road. Rgt tfc. RWY 29. Road RUNWAY DECLARED DISTANCE INFORMATION RWY 05: TORA-4430 TODA-5110 ASDA-4550 LDA-4430 RWY 23-TORA-4430 TODA-4845 ASDA-4430 LDA-4430 AIRPORT REMARKS: Attended 1200-0400Z‡. Arpt attended other hrs on reg thru FBO. Ducks and seagulls occasionally near arpt during seasonal migrations. Deer on and invof arpt, ACTIVATE MIRL Rwv 05-23 and Rwv 11-29, PAPI Rwv 05 and Rwv 23 and REIL Rwv 05 and Rwv 23-CTAF. WEATHER DATA SOURCES: AWOS-3 119.975 (920) 261-0734. COMMUNICATIONS: CTAF/UNICOM 122.8 R MADISON APP/DEP CON 119.15 (1200-0500Z‡) RCHICAGO CENTER APP/DEP CON 133.3 (0500-1200Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE MKE. BADGER (H) VORTACW 116.4 BAE Chan 111 N43°07.01′ W88°17.06′ 277° 19.5 NM to fld. 1080/2E. ROCK RIVER NDB (MHW) 371 RYV N43°10.42′ W88°43.52′ at fld. NOTAM FILE RYV. NDB unmonitored 0500-1000Z±. WAUKESHA CO (UES) 2 N UTC-6(-5DT) N43°02.46′ W88°14.22′ CHICAGO 911 B S4 FUEL 100LL, JET A OX 1 NOTAM FILE UES H-5E, L-28H, A RWY 10-28: H5848X100 (CONC-GRVD) S-40, D-66, ST-84 HIRL IAP. AD RWY 10: MALSR. VASI(V4L)-GA 3.0°TCH 56'. Trees. RWY 28: REIL. VASI(V4L)-GA 3.75°TCH 37'. Tree. RWY 18-36: H3598X75 (ASPH) S-20 MIRL RWY 18: REIL. PAPI (P2L). Road. RWY 36: REIL. PAPI (P2L). Road. AIRPORT REMARKS: Attended continuously. Deer and coyotes on and invof arpt. Call 262-549-6150 for oxygen availability. Twy D clsd at Rwy 18-36 indef. HIRL Rwy 10-28 preset on low ints; to increase ints and ACTIVATE MIRL Rwy 18-36; REIL Rwy 28, Rwy 18, Rwy 36, and MALSR Rwy 10-CTAF. **4**3 30 WEATHER DATA SOURCES: AWOS-3 118.875 (262) 521-5226. 0 Unavailable 1200-0300Z‡. COMMUNICATIONS: CTAF 123.7 ATIS 118.875 UNICOM 122.95 R MILWAUKEE APP/DEP CON 128.7 (North) CLNC DEL 128.7 (0300-1200Z‡)ß TOWER 123.7 (1200-0300Z‡) GND CON 121.6 AIRSPACE: CLASS D svc 1200-0300Z‡ other times CLASS G. a RADIO AIDS TO NAVIGATION: NOTAM FILE MKE. BADGER (H) VORTACW 116.4 BAE Chan 111 N43°07.01' W88°17.06' 153° 5 NM to fld. 1080/2E. HIWAS.

WAUNAKEE (6P3) 1 S UTC-6(-5DT) N43°10.72′ W89°27.08′ NOTAM FILE GRB

CHICAGO

954 FUEL 100LL TPA-1954(1000)

Rwy 10.

NDB (MHW) 359 UES N43°02.68' W88°14.11'

RWY 09-27: H2223X30 (ASPH) LIRL (NSTD)

RWY 27: Thid dsplcd 146'. Building.

I-SKC

AIRPORT REMARKS: Unattended. For fuel call 608-225-1109. ACTIVATE LIRL Rwy 09-27—CTAF. Rwy 09-27 NSTD LIRL 165' from E end; 155' from W end. 1910' of rwy is lgtd. Rwy lgts approximately 60' from pavement edge. Rwy 27 NSTD dsplcd thld markings.

Unmonitored when twr clsd.

at fld. NOTAM FILE UES, OTS indef.

COMMUNICATIONS: CTAF 122.9

ILS 109.5

WAUPACA MUNI (PCZ) 3 SE UTC-6(-5DT) N44°20.00′ W89°01.19′ GREEN BAY 840 B S4 FUEL 100LL OX 4 TPA-1840(1000) NOTAM FILE PCZ H-2J, L-14J, 28H RWY 10-28: H5200X100 (ASPH) MIRL 0.7% up W ΙΔΡ RWY 10: REIL. PAPI(P2L)-GA 3.0° TCH 40'. Rgt tfc. RWY 28: REIL. PAPI(P2L)-GA 3.0° TCH 40'. Trees. Rgt tfc. RWY 13-31: H3899X75 (ASPH) S-13 MIRL 0.6% up W RWY 13: PAPI(P4L)—GA 3.0° TCH 33'. Trees. RWY 31: PAPI(P2L)-GA 3.0° TCH 27'. Road. AIRPORT REMARKS: Attended May 21-Sep 9 1400-0200Z‡, Sep 10-May 20 1400-2300Z‡. ACTIVATE MIRL Rwy 13-31 and PAPI Rwy 13 and Rwy 31 and REIL Rwy 10-CTAF. MIRL Rwy 10-28 and PAPI Rwy 10 and Rwy 28 opr dusk-dawn, to incr ints ACTIVATE-CTAF. WEATHER DATA SOURCES: AWOS-3 118.625 (920) 867-2407. COMMUNICATIONS: CTAF/UNICOM 122.8 R MINNEAPOLIS CENTER APP/DEP CON 124.4 GCO 121.725 (FLIGHT SERVICES) RADIO AIDS TO NAVIGATION: NOTAM FILE STE. STEVENS POINT (L) VORTAC 110.6 STE Chan 43 N44°32.60′ W89°31.83′ 121° 25.3 NM to fld. 1110/2E. NDB (MHW) 382 PCZ N44°20.06′ W89°01.18′ at fld, Unmonitored, NOTAM FILE PCZ, NDB OTS indef, WAUSAU DOWNTOWN (AUW) 0 S UTC-6(-5DT) N44°55.58′ W89°37.62′ **GREEN BAY** 1201 B S4 FUEL 100LL, JET A, MOGAS TPA-2201(1000) NOTAM FILE AUW H-2J, L-14J RWY 12-30: H5200X100 (ASPH) S-45, D-80, ST-102, DT-140 MIRL IAP RWY 12: REIL. PAPI(P4L)—GA 3.0°TCH 39'. Trees. RWY 30: REIL. PAPI(P4L)-GA 3.0° TCH 47'. Trees. RWY 04-22: H3078X100 (ASPH) S-32, D-55. DT-95 MIRL 0.4% up NE RWY 22. Trees AIRPORT REMARKS: Attended May-Sep Mon-Fri 1400-0000Z±. Sat-Sun 1400-2300Z±, Oct-Apr 1400-2300Z±, MIRL Rwv 12-30 and Rwv 04-22 preset low ints; to increase ints and ACTIVATE REIL Rwy 12 and Rwy 30, PAPI Rwy 12 and Rwy 30-CTAF. WEATHER DATA SOURCES: ASOS 125.925 (715) 843-7215. COMMUNICATIONS: CTAF/UNICOM 122.7 RCO 122.4 (GREEN BAY RADIO) R MINNEAPOLIS CENTER APP/DEP CON 124.4 RADIO AIDS TO NAVIGATION: NOTAM FILE AUW. (L) VORTACW 111.6 AUW Chan 53 N44°50.81' W89°35.19' 338° 5.1 NM to fld. 1205/2E. VOR unusable: 305°-350° byd 25 NM blo 4000′ 050°-209° byd 8 NM 114°-157° 210°-049° byd 10 NM' DME unusable: 300°-320° bvd 30 NM blo 4000′ 320°-300° bvd 30 NM blo 3000′ NDB (MHW) 243 FZK N44°55.67′ W89°37.52′ at fld. 1161 TPA-2161(1000) WATERWAY 12-30: 8000X300 (WATER) SEAPLANE REMARKS: Access road poor.

WAUSAU/STEVENS POINT (See CENTRAL WISCONSIN, MOSINEE)

MISCUNSIN 327

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WAUTOMA MUNI (Y5Ø) 2 SW UTC-6(-5DT) N44°02.50′ W89°18.27′
                                                                                                  GREEN BAY
       859 B S4 FUEL 100LL NOTAM FILE GRB
                                                                                                     I-28H
       RWY 13-31: H3300X60 (ASPH) S-12.5 MIRL
                                                                                                       ΙΔΡ
                           RWY 31: Tree.
         RWY 13: Trees
       RWY 08-26: 2280X150 (TURF)
         RWY 08: Trees.
                           RWY 26: Trees.
       RWY 05-23: H1190X35 (ASPH)
         RWY 05: Trees.
                           RWY 23: Trees.
       AIRPORT REMARKS: Attended May-Sep 1300-0200Z‡, Oct-Apr 1300-0000Z‡. 24 hour self svc fuel. Rwy 08-26
         CLOSED winter months except for ski equipped acft. Rwy 08-26 East 430' CLOSED in winter. Waterfowl and
         deer on and invof arpt. Ultralights on and invof arpt. MIRL Rwy 13-31 preset on low ints; to increase ints
         ACTIVATE—CTAF, Rwv 08-26 ends marked with white markers.
       COMMUNICATIONS: CTAF/UNICOM 122.8
      R MILWAUKEE APP/DEP CON 127.0
       RADIO AIDS TO NAVIGATION: NOTAM FILE STE.
         STEVENS POINT (L) VORTAC 110.6 STE Chan 43 N44°32.60′ W89°31.83′ 163° 31.6 NM to fld. 1110/2E.
WEST BEND
     HAHN SKY RANCH (2T5) 5 NW UTC-6(-5DT) N43°27.98′ W88°17.46′
                                                                                                    CHICAGO
       1090 $2
                   NOTAM FILE GRR
       RWY 10-28: 2900X60 (TURF)
         RWY 10: Brush.
                           RWY 28: Tree
       AIRPORT REMARKS: Unattended. Rwy 10-28 has soft areas approximately 1000' from W end.
         Rwy 10-28 surface rough and rolling. Ultralight activity on and invof arpt. Rwy 10-28 thld not marked.
       COMMUNICATIONS: CTAF 122.9
      ______
     WEST BEND MUNI (ETB) 3 E UTC-6(-5DT) N43°25.33′ W88°07.68′
                                                                                                    CHICAGO
       887 B S4 FUEL 100LL, JET A TPA-1887(1000) NOTAM FILE ETB
                                                                                                     L-28H
       RWY 13-31: H4494X75 (ASPH) S-15 MIRL 0.3% up NW
                                                                                                       IAP
         RWY 13: REIL. VASI(V4L)-GA 3.0° TCH 37'. Road.
                                                          RWY 31: REIL. VASI(V2L)-GA 3.0° TCH 28'. Trees.
       RWY 06-24: H3897X75 (ASPH) S-12 MIRL 0.3% up SW
         RWY No. Tree
                          RWY 24: Road.
       AIRPORT REMARKS: Attended 1300Z‡-dusk. 100' crane 400' SW AER 13 Mon-Fri 1700-0500Z‡. MIRL Rwys 06-24
         and 13-31 preset on low ints: to increase ints and ACTIVATE REIL Rwys 13-31: VASI Rwys 13 and 31-CTAF.
       WEATHER DATA SOURCES: AWOS-3 120.0 (262) 334-6161.
       COMMUNICATIONS: CTAF/UNICOM 122.8
         RCO 122.1R 109.8T (GREEN BAY RADIO)
      (R) MILWAUKEE APP/DEP CON 125.35 CLNC DEL 124.75
       RADIO AIDS TO NAVIGATION: NOTAM FILE MKE.
         BADGER (H) VORTACW 116.4 BAE Chan 111 N43°07.01′ W88°17.06′ 018° 19.6 NM to fld. 1080/2E.
            2AWIH
         (T) VOR 109.8 BJB N43°25.32′ W88°07.51′ at fld. NOTAM FILE ETB.
         KETTLE MORAINE NDB (MHW) 329 LLE N43°25.51′ W88°07.63′ at fld. NOTAM FILE ETB, Unmonitored.
           SHIITDOWN
         IIS 108 9
                  1-ETB Rwv 31. LOC monitored 1300-0300Z‡ daily.
       COMM/NAV/WEATHER REMARKS: AWOS-3 ceiling unreliable.
             . . . . . . .
       HELIPAD H1: H100X100 (ASPH)
       HELIPORT REMARKS: When using military helipad military helicopters use pattern to the N or W of arpt. Helipad H1 blue
         perimeter lgts.
    WESTOSHA (See WILMOT)
WHITFWATFR
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GUTZMER'S TWIN OAKS (5Y3) 1 NW UTC-6(-5DT) N42°51.21′ W88°45.59′

CHICAGO

821 TPA-1621(800) NOTAM FILE GRB

RWY 18-36: 2523X140 (TURF) LIRL (NSTD)

RWY 18: Trees.

AIRPORT REMARKS: Attended Apr-Nov 1400Z‡-SS. Rwy 18-36 not plowed winters. Arpt CLOSED to wheeled acft when rwy snow covered. Extensive ultralight and hang glider ops on and invof arpt. Rwy 18–36 not sanded or plowed. Rwy 18-36 thId marked with white and orange L-shaped wooden A-frames. Rwy 18-36 NSTD LIRL; Igts not on frangible mounts.

COMMUNICATIONS: CTAF 122.9

WICKR N45°19.05′ W91°48.17′ NOTAM FILE RPD.

NDB (LOM) 221 RP 010° 6.3 NM to Rice Lake Rgnl-Carl's Fld.

WILD ROSE IDLEWILD (W23) 2 NE UTC-6(-5DT) N44°11.87′ W89°13.07′

CHICAGO

908 B NOTAM FILE GRB

RWY 09-27: 2990X100 (TURF) RWY LGTS (NSTD)

RWY 09: Tree.

RWY 27: Tree.

RWY 18-36: 1695X100 (TURF)

RWY 18: Trees. RWY 36: Trees.

AIRPORT REMARKS: Unattended. Rwy 18-36 CLOSED Nov 15 thru Apr 1. Ultralight activity on and invof arpt. Deer and cranes on and invof arpt. Rwy 09-27 plowed winter months. Rwy 9-27 NSTD thld lgts. ACTIVATE LIRL Rwy 09-27—CTAF, Rwy 09 thid lgts OTS indef, Rwy 18-36 marked with black and yellow panels, Rwy 09-27 marked with yellow panels and orange edge markers. Rwy 27 additional obstruction road 0' from thld 90' right; apch ratio 0:1.

COMMUNICATIONS: CTAF/UNICOM 122.8

WII MOT

WESTOSHA (5K6) 1 W UTC-6(-5DT) N42°30.85′ W88°12.31′

CHICAGO

850 B S4 **FUEL** 100LL TPA—1500(650) NOTAM FILE GRB

RWY 03-21: H2849X38 (ASPH-CONC) LIRL (NSTD)

RWY 03: Thid dsplcd 36', Road. RWY 21: Thid dsplcd 9'.

RWY 14-32: 1517X45 (TURF)

RWY 14: Fence. RWY 32: Trees.

AIRPORT REMARKS: Attended 1400-0000Z‡. Rwy 14-32 CLOSED Nov 15 thru Mar 31. Arpt has noise abatement procedures ctc arpt manager on 262-862-6111. Rwy 03-21 SW 400' conc and NE 27' conc rest of rwy asph. Rwy 03-21 has a 60' drop-off 10' from NE end. ACTIVATE LIRL Rwy 03-21—CTAF. ACTIVATE rotating bcn—CTAF. Rwy 14-32 A-frames painted orange and white. Rwy 03-21 NSTD LIRL; Rwy 03 thld lgts 3 each side; Rwy 21 1 light each side.

COMMUNICATIONS: CTAF/UNICOM 123.0

WISCONSIN RAPIDS NOTAM FILE ISW.

GREEN BAY

NDB (MHW) 215 ISW N44°21.84′ W89°50.39′ at Alexander Fld South Wood Co. RCO 122.45 (GREEN BAY RADIO)

1-28G

EC, 17 DEC 2009 to 11 FEB 2010

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WISCONSIN RAPIDS

ALEXANDER FLD SOUTH WOOD CO (ISW) 1 S UTC-6(-5DT) N44°21.62′ W89°50.34′

1021 B FUEL 100LL, JET A TPA—See Remarks NOTAM FILE ISW

GREEN RAY H-2J. L-28G ΙΔΡ

43

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RWY 02-20: H5500X100 (ASPH) S-40, D-60 MIRL RWY 02: REIL. PAPI(P4L)-GA 3.0° TCH 50'. Trees.

RWY 20: REIL. PAPI(P4L)-GA 3.0° TCH 50'. Tree.

RWY 11-29: H3640X50 (ASPH) S-12, D-20 MIRL

RWY 29: PAPI(P4L)—GA 4.0° TCH 50'. Thid dspicd 170'. Trees.

RWY 18-36: 2100X50 (TURF)

RWY 18. Tree RWY 36: Trees.

AIRPORT REMARKS: Attended May-Sep 1400-2330Z±. Oct-Apr 1400-2300Z‡. Birds on and invof arpt. ACTIVATE MIRL Rwy 02-20: MIRL Rwv 11-29: REIL Rwv 02 and Rwv 20: PAPI Rwv 02: Rwy 20 and Rwy 29-CTAF. Rwy 18-36 marked with yellow metal triangles. Ultralight acft must have an operating altimeter, two-way radio, use ultralight ops area (Rwv 18-36), avoid overflight of hard surface rwys. Ultralight acft must have an operating altimeter and two-way radio. Ultralight ops area posted at terminal building or call 715-424-3737. Ultralights use rgt tfc for Rwys 02, 20 and 11 and left tfc for Rwy 29. When ultralight opns are clsd, ultralights use rgt tfc for Rwy 02, Rwy 20 and Rwy 11 and left tfc

for Rwy 29. When Rwy 18-36 is closed ultralights may use Rwy 02-20 and Rwy 11-29. TPA: ultralight TPA 1521(500).

WEATHER DATA SOURCES: ASOS 126.575 (715) 421-2120. COMMUNICATIONS: CTAF/UNICOM 122.8 WISCONSIN RAPIDS RCO 122.45 (GREEN BAY RADIO)

(R) MINNEAPOLIS CENTER APP/DEP CON 124.4

RADIO AIDS TO NAVIGATION: NOTAM FILE STE.

STEVENS POINT (L) VORTAC 110.6 STE Chan 43 N44°32.60′ W89°31.83′ 231° 17.2 NM to fld. 1110/2E.

WISCONSIN RAPIDS NDB (MHW) 215 ISW N44°21.84′ W89°50.39′ at fld. NOTAM FILE ISW. NEPCO NDB (LOM) 326 EK N44°15.59′ W89°53.27′ 020° 6.4 NM to fld. Unmonitored.

SDF 108 7 EKP Rwv 02 LOM NEPCO NDB, Unmonitored.

WITTMAN RGNL (See OSHKOSH)

WONEWOC

THREE CASTLES AIRPARK (4D1) 1 NW UTC-6(-5DT) N43°40.20′ W90°13.96′

CHICAGO

921 TPA-1921(1000) NOTAM FILE GRB

RWY 10-28: 2740X90 (TURF)

RWY 10: Tree. RWY 28: Trees.

AIRPORT REMARKS: Unattended.

COMMUNICATIONS: CTAF 122.9

WOODRUFF N45°53.33′ W89°36.43′ RCO 122.6 (GREEN BAY RADIO)

GREEN BAY L-10H, 12E

YANKS N43°03.60′ W87°52.61′ NOTAM FILE MKE.

NDB (MHW/LOM) 260 BL 189° 6.8 NM to General Mitchell Intl. Unmonitored.

CHICAGO Α

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MODEL ROCKET ACTIVITY IN ILLINOIS

Hillsboro Municipal Airport (3K4), Hillsboro, IL

Model Rocket activity will be conducted within a 2 NM radius of the VLA273011, SFC to 8,000 Feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

Tuscola Airport (K96), Tuscola, IL

Model Rocket activity will be conducted within a 2 NM radius of Tuscola Airport (K96), SFC to 10,000 feet MSL, SR-SS. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

AEROBATIC PRACTICE AREAS IN ILLINOIS Litchfield Municipal Airport (3LF), Litchfield, IL

Aerobatic practice will be conducted within 2 NM radius of Litchfield Municipal Airport (3LF), from 1,700 feet MSL to 4,200 feet MSL. The practice area is for waiver holders only. Pilots should use caution when opr within this area. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

Smith Airport (LL27), Macomb, IL

Aerobatic practice will be conducted within 2 NM radius of Smith Airport (LL27), SFC to 4,100 feet MSL, SR-SS. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

Williamson County Regional Airport (MWA), Marion, IL

Aerobatic practice will be conducted within 1 NM radius of Williamson County Regional Airport (MWA), SFC to 5,000 feet MSL, SR-SS. For further information contact Flight Services at 1–800–WX–BRIEF (992-7433).

Pinckneyville-DuQuoin Airport (PJY), Pinckneyville, IL

Aerobatic practice will be conducted within 2 NM radius of Pinckneyville–DuQuoin Airport (PJY), SFC to 3,900 feet MSL, SR-SS. For further information contact Flight Services at 1–800–WX–BRIEF (992–7433).

Springfield IL, Abraham Lincoln Capital Airport (SPI)

Aerobatic practice will be conducted within 1.5 NM radius of Springfield VOR SPI160010, from 2,100 feet MSL to 4,600 feet MSL, SR-SS. For further information contact Flight Services at 1–800–WX-BRIEF (992–7433).

AEROBATIC PRACTICE AREA

Norris Field (8II2), Richmond, IN

Aerobatic Flight Activity will be conducted within 1 (one) NM radius of the Richmond (RID) VORTAC 193R/6 DME. Flights will occur from 800' AGL to 3,500' AGL. Pilots should use caution when operating within this area. For further information, Contact Dayton APP CON at 1–937–454–7310 or freq. 134.45.

AEROBATIC PRACTICE AREA

Skyway Estates Airport (60G), Eaton Rapids, MI

Aerobatic Flight Activity will be conducted within a 1 (one) NM radius of the Lansing (LAN) VORTAC 171R/8DME. Flights will occur from SR to SS from 2,500 MSL to 6,000 MSL.

Pilots should use caution when operating within this area. For further information, contact Lansing ATCT at 1-517-321-1355 or freq. 119.9.

Search Light Activity Dayton, OH

Search light activity will be conducted at the Dayton Schuster Performing Arts Center, Dayton, OH (FFO VORTAC 241/7.23, Lat 39-45-39.56N, Lon 084-11-32.94W) at and above 1500 MSL, from dusk until midnight. Searchlight beams may be injurious to pilots/passengers eyes at 1500 MSL and above. Flash blindness or cockpit illumination may occur at greater distances, to several miles. For further information, contact Dayton AFSS at 937-454-8398.

COMMUNICATIONS ADVISORIES Indianapolis ARTCC

NABB INDIANA AREA

New Hope, London, Lexington Kentucky Area

Indianpolis Center has installed frequencies in the southern portion of their airspace that require 720-channel radio capability.

Pilots should be aware that if they fly in the Nabb, IN, or the New Hope, London, and Lexington, KY, area without a 720-channel radio, ATC services will be greatly reduced. Traffic advisories, weather information, airport information, along with any other direct communication services will not be available.

While in this area of Indianapolis Center, pilots witout 720-channel capability will, in most cases, monitor Flight Service Stations. There will be a noticeable delay in all clearance activity. Please ensure that ATC has adequate lead time in the event of problems or clearance requirements.

INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS CHICAGO O'HARE INTERNATIONAL AIRPORT (ORD) CHICAGO. ILLINOIS

Chicago O'Hare International Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the control tower from taxiing an aircraft into ''position and hold'' at an intersection, between sunset and sunrise.

This waiver allows the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersections listed below.

Runway 10 at Taxiway 2H Runway 14L at Taxiway U2 Runway 14L at Taxiway V Runway 28 at Taxiway ZW Runway 28 at Taxiway ZV Runway 32L at Taxiway V Runway 32L at Taxiway M Runway 32L at Taxiway M

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible from the tower unless the aircraft's position can be verified by the Airport Surface Detection Equipment (ASDE) prior to the issuance of a departure clearance. When the provisions of this waiver are being exercised, the affected runways shall be used for departures only, departures shall not be permitted from any point on the runway other than the intersections listed above, and only one aircraft at a time is permitted to taxi into position and hold on each respective runway.

INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS INDIANAPOLIS INTERNATIONAL AIRPORT (IND) INDIANAPOLIS, INDIANA

Indianapolis International Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise.

This waiver allows the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersections listed below.

Runway 23L at Taxiways "C2" and "D2" Runway 23R at Taxiways "A2" and "B2"

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible from the tower. When the provisions of this waiver are being exercised, the affected runways shall be used for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise. However, aircraft cannot be taxied into "position and hold" prior to takeoff clearance.

INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS GENERAL MITCHELL INTERNATIONAL AIRPORT (MKE) MILWAUKEE, WISCONSIN

Milwaukee Mitchell International Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise.

This waiver allows the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersection listed below

Runway 19R at Taxiway Victor

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible from the tower. When the provisions of this waiver are being exercised, the affected runway shall be used for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise.

INTERSECTING RUNWAY OPERATIONS

CHICAGO O'HARE INTERNATIONAL AIRPORT (ORD) CHICAGO, ILLINOIS

Chicago O'Hare International (ORD) Airport Traffic Control Tower (ATCT) has been authorized to conduct intersecting runway operations to Runway 28 and Runway 14R whereby an aircraft departing Runway 28 shall be through the intersection of Runway 14R prior to the arriving aircraft on Runway 14R reaching a point no closer than 5,000 feet from the intersection of both runways.

SIMULTANEOUS OPPOSITE DIRECTION OPERATIONS CHICAGO O'HARE INTERNATIONAL AIRPORT (ORD) CHICAGO. ILLINOIS

Chicago O'Hare International (ORD) Airport Traffic Control Tower (ATCT) has been authorized to conduct arrivals to Runways 14L & 14R while conducting simultaneous opposite direction departures off of runways 09R & 28 during IFR weather conditions. ORD ATCT is authorized to conduct simultaneous converging instrument approaches to runways 14R & 22R while conducting simultaneous opposite direction departures off of runways 09R & 28 during IFR weather conditions.

SIMULTANEOUS ILS APPROACHES WITH ONE GLIDE SLOPE OUT OF SERVICE CHICAGO O'HARE INTERNATIONAL AIRPORT (ORD) CHICAGO. ILLINOIS

Chicago O'Hare International Airport Traffic Control Tower and Chicago TRACON have been authorized to conduct independent simultaneous ILS approaches with the glide slope of one parallel runway inoperative.

ILS PRM (SIMULTANEOUS CLOSE PARALLEL) PROCEDURE FOR PILOTS FILING FLIGHT PLANS TO CLEVELAND-HOPKINS INTERNATIONAL (CLE)

Effective Thursday, May 12, 2005. During the hours of 0700–2200 local, CLE ATCT may utilize ILS PRM and LDA PRM apchs to Runways 6L/6R as weather and arrival traffic demand dictate. Aircraft arriving from the west and north (primarily over ZABER and HIMEZ INT.) should expect ILS PRM Runway 6L, aircraft arriving from the east and south (primarily over CXR and KEATN INT.) should expect LDA PRM Runway 6R. If unable to participate in PRM apchs acft operators are required to contact FAA ATCSCC directly at 1–800–333–4286 or at 703–904–4452 prior to departure to obtain a pre-coordinated arrival time. Non-participating acft may encounter DLAS attributable to PRM flow. Pilot requirements and procedures are outlined in the U.S. Terminal Procedures Publications on the pages entitled Attention All Users of ILS Precision Runway Monitor (PRM) or LDA Precision Runway Monitor (PRM).

SPECIAL NORTH ATLANTIC, CARIBBEAN AND PACIFIC AREA COMMUNICATIONS

VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations to exchange necessary operational information and to facilitate the resolution of operational problems.

Frequencies have been designated as follows:

North Atlantic area: 123.45 MHz
Caribbean area: 123.45 MHz
Pacific area: 123.45 MHz

CHICAGO, ILLINOIS CHICAGO O'HARE VOR/DME

DME unlocks can occur periodically due to ground station overload when more than 100 aircraft interrogations are received at the same time. The problem may occur when aircraft are being held in the Chicago (O'Hare) terminal area awaiting approach clearance at O'Hare. Possibilities of the problem occurring are reduced by users deactivating interrogators during nonuse or switching to an ILS DME whenever possible. Deactivating interrogators on the ground is especially important since nearby aircraft cause more overload than distant ones.

MILITARY TRAINING ROUTES

The DOD Flight Information Publication AP/1B provides textual and graphic descriptions and operating instructions for all military training routes (IR, VR, SR) and refueling tracks/anchors. Complete and more comprehensive information relative to policy and procedures for IRs and VRs is published in FAA Handbook 7610.4 (Special Military Operations) which is agreed to by the DOD and therefore directive for all military flight operations. The AP/1B is the official source of route data for military users.

CIVIL USE OF MILITARY FIELDS

U.S. Army, Air Force, Navy and Coast Guard Fields are open to civil fliers only in emergency or with prior permission. Army installations, prior permission is required from the Commanding Officer of the installation.

For Air Force installations, prior permission should be requested at least 30 days prior to first intended landing from either Headquarters USAF (PRPOC) or the Commander of the installation concerned (who has authority to approve landing rights for certain categories of civil aircraft). For use of more than one Air Force installation, requests should be forwarded direct to Hq USAF (PRPOC), Washington, D.C. 20330.

Use of USAF installations must be specifically justified.

For Navy and Marine Corps installations, prior permission should be requested at least 30 days prior to first intended landing.

An Aviation Facility License must be approved and executed by the Navy prior to any landing by civil aircraft.

Forms and further information may be obtained from the U.S.Navy or Marine Corps aviation activity.

For Coast Guard fields prior permission should be requested from the Commandant, U.S. Coast Guard via the Commanding Officer of the field.

When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

AIRCRAFT LANDING RESTRICTIONS

Landing of aircraft at locations other than public use airports may be a violation of Federal or local law. All land and water areas are owned or controlled by private individuals or organizations, states, cities, local governments, or U.S. Government agencies. Except in emergency, prior permission should be obtained before landing at any location that is not a designated public use airport or seaplane base.

Landing of aircraft is prohibited on lands and waters administered by the National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, and on many areas controlled by the U.S. Army Corps of Engineers, unless prior authorization is obtained from the respective agency.

CONTINUOUS POWER FACILITIES

In order to insure that a basic ATC system remains in operation despite an areawide or catastrophic commercial power failure, key equipment and certain airports have been designated to provide a network of facilities whose operational capability can be utilized independent of any commercial power supply.

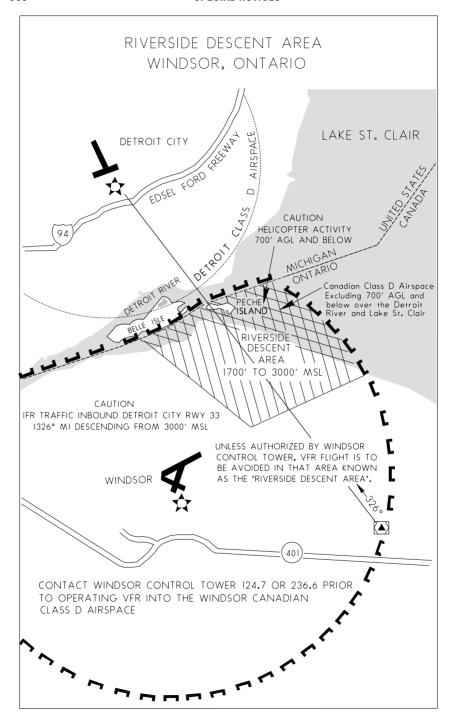
In addition to those facilities comprising the basic ATC system, the following approach and lighting aids have been included in this program for a selected runway.

- 1. ILS (Localizer, Glide Slope, COMLO, Inner, Middle and Outer Markers)
- 2. Wind Measuring Capability
- 3. Approach Light System (ALS) or Short ALS (SALS)
- 4. Ceiling Measuring Capability
- 5. Touchdown Zone Lighting (TDZL)
- 6. Centerline Lighting (CL)
- 7. Runway Visual Range (RVR)
- 8. High Intensity Runway Lighting (HIRL)
- 9. Taxiway Lighting
- 10. Apron Light (Perimeter Only)

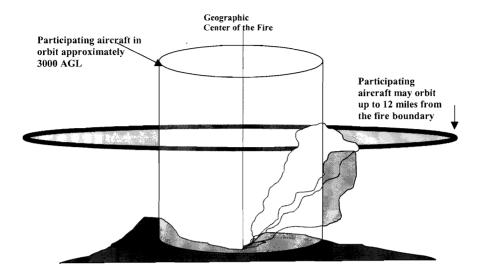
The following have been designated "Continuous Power Airports," and have independent back up capability for the equipment installed.

Airport/Ident	Runway No.	Airport/Ident	Runway No.
Albuquerque, NM (ABQ)	08	Milwaukee, WI (MKE)	01L
Anchorage, AK (ANC)	07R	Minneapolis, MN (MSP)	30L
Andrews AFB, MD (ADW)	01L	Nashville, TN (BNA)	02L
Atlanta, GA (ATL)	09R	New Orleans, LA (MSY)	10
Baltimore, MD (BWI)	10	New York, NY (JFK)	04R
Bismarck, ND (BIS)	31	New York, NY (LGA)	22
Boise, ID (BOI)	10R	Newark, NJ (EWR)	04R
Boston, MA (BOS)	04R	Oklahoma City, OK (OKC)	35R
Charlotte, NC (CLT)	36L	Omaha, NE (OMA))	14R
Chicago, IL (ORD)	14R	Ontario, CA (ONT)	26L
Cincinnati, OH (CVG)	36C	Philadelphia, PA (PHL)	09R
Cleveland, OH (CLE)	06R	Phoenix, AZ (PHX)	08
Dallas/Fort Worth, TX (DFW)	17C	Pittsburgh, PA (PIT)	10L
Denver, CO (DEN)	35R	Reno, NV (RNO)	16R
Des Moines, IA (DSM)	31	Salt Lake City, UT (SLC)	34L
Detroit, MI (DTW)	03R	San Antonio, TX (SAT)	12R
El Paso, TX (ELP)	22	San Diego, CA (SAN)	09
Fairbanks, AK (FAI)	01L	San Francisco, CA (SFO)	28R
Great Falls, MT (GTF)	03	San Juan, PR (SJU)	08
Honolulu, HI (HNL)	08L	Seattle, WA (SEA)	16C
Houston, TX (IAH)	26L	St. Louis, MO (STL)	30R
Indianapolis, IN (IND)	05L	Tampa, FL (TPA))	36L
Jacksonville, FL (JAX)	07	Tulsa, OK (TUL)	36R
Kansas City, MO (MCI)	19R	Washington, DC (DCA)	01
Los Angeles, CA (LAX)	24R	Washington, DC (IAD)	01R
Memphis, TN (MEM)	36L	Wichita, KS (ICT)	01L
Miami, FL (MIA)	08R		

NOTE—The existing CPA runway is listed. Pending and future changes at some locations will require a revised runway designation.



FIREFIGHTING TRAFFIC AREAS



Pilots are advised to stay clear of Firefighting Traffic Areas. Remain 15 miles from the area of activity. If you must over-fly the area, do so at an altitude of 5000 feet AGL above. However, to remain safe and out of the way of working aircraft, it is best to circumnavigate the area.

The wild-land fire environment can be very complex and involve a large number and variety of aircraft types including fixed and rotary wing aircraft. Some of the aircraft are small single and multi-engine command and control platforms that can be especially difficult to see and may give the appearance that the fire is not staffed. The aircraft participating in firefighting can orbit as far out as 12 miles from the perimeter of the fire. Any intrusion by aircraft not directly involved in the firefighting operation could delay the delivery of much needed retardant or water to ground firefighters and will adversely affect the safety of participating aircraft. Please stay well away from wild-land fires even if you feel that aircraft are not working the fire; they may be en route or unseen.

If you see a fire developing along your route, report it immediately to air traffic control who will advise the US Forest Service. The firefighting community would welcome this information

The following narratives summarize the FAR Part 93 Special Air Traffic Rules, and Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, World Aeronautical Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

LORAIN (ELYRIA), OHIO LORAIN COUNTY AIRPORT TRAFFIC RULE

Part 93, Subpart J, requires each person piloting an airplane landing at the Lorain County Rgnl Airport shall enter the traffic pattern north of the airport and shall execute a right traffic pattern for a landing to the southwest or a left traffic pattern for a landing to the northeast. Each person taking off from the airport shall execute departure turn to the north as soon as practicable after takeoff.

OPERATIONS RESERVATIONS FOR HIGH DENSITY TRAFFIC AIRPORTS KENNEDY, LAGUARDIA, AND WASHINGTON REAGAN NATIONAL

The Federal Aviation Administration (FAA) has designated New York's Kennedy and LaGuardia Airports and Washington Reagan National Airport as High Density Traffic Airports (HDTA), Title 14, Code of Federal Regulations, part 93, subpart K, and has prescribed air traffic rules and requirements for operating aircraft (excluding helicopters) to and from those airports during certain hours.

Reservations are required for operations from 6 a.m. through 11:59 p.m. local time at LaGuardia Airport and Washington Reagan National Airport. Reservations at Kennedy Airport are required from 3 p.m. through 7:59 p.m. local time.

Reservation procedures are detailed in Advisory Circular 93–1, Reservations for Unscheduled Operations at High Density Traffic Airports. A copy of the advisory circular is available on the FAA website at http://www.faa.gov. Reservations for unscheduled operations are allocated through the Enhanced Computer Voice Reservation System (e-CVRS) accessible via telephone or the Internet. This system may not be used to make reservations for scheduled air carrier or commuter flights.

The toll–free telephone number for accessing e–CVRS is 1–800–875–9694 and is available for calls originating within the United States, Canada, and the Caribbean. Users outside the toll–free areas may access e–CVRS by calling the toll number of 703–707–0568. The Internet web address for accessing the e–CVRS is http://www.fly.faa.gov/ecvrs. If you have any questions about reservation requirements or are experiencing problems with the system, you may telephone the Airport Reservation Office at the Air Traffic Control System Command Center at (703) 904–4452.

Requests for instrument flight rules (IFR) reservations will be accepted beginning 72 hours prior to the proposed time of operation at the high-density airport. For example, a request for an 11 a.m. reservation on a Thursday will be accepted beginning at 11 a.m. on the previous Monday.

IFR reservations must be obtained prior to IFR landing or takeoff at an HDTA during slot controlled hours. An air traffic control (ATC) clearance does not constitute a reservation. A reservation does not constitute permission to operate at an HDTA if additional operational limits or procedures are required by NOTAM and/or regulation.

Aircraft involved in medical emergencies will be handled by ATC without regard to a reservation after obtaining prior approval of the ATC System Command Center on (703) 904–4452. ATC will accommodate declared other emergency situations without regard to slot reservations.

NOTE: Visual flight rule (VFR) reservations via ATC for unscheduled operations at LaGuardia are not authorized from 7 a.m. through 8:59 a.m. local time and 4 p.m. through 6:59 p.m. local time, Monday through Friday and Sunday evenings, unless otherwise announced by NOTAM. Both IFR and VFR operations during those time periods must obtain an advance reservation through e–CVRS.

FSS Telephone numbers

Flight Service Station (FSS) facilities provide flight planning and weather briefing services to pilots. FSS services in the contiguous United States, Hawaii and Puerto Rico, are provided by a network of large hub facilities and smaller remote facilities which are interconnected with the hubs.

<u>Selected remote FSS</u> facilities across the contiguous United States have variable part—time operating hours. Because of the interconnectivity between remote and hub facilities, all FSS services are available continuously using published telephone numbers and radio frequencies.

EAST CENTRAL U.S.

ILLINOIS: Kankakee, Greater Kankakee (IKK)-IKK FSS

MICHIGAN: Lansing, Capital City (LAN)-LAN FSS

Telephone Information Briefing Service (TIBS) is the FSS service that provides continuous recordings of meteorological and/or aeronautical information including area and/or route briefings, airspace procedures and special announcements. A touch-tone telephone is required to fully utilize this service.

Further information can be found in the Aeronautical Information Manual (AIM).

NATIONAL FSS TELEPHONE NUMBER

OTHER FSS TELEPHONE NUMBERS (except in Alaska)

TIBS (see description above)	1-800-4TIBS-WX (1-877-484-2799)
Clearance Delivery Only	1-888-766-8267
Lifeguard Flights Only	1-877-LIF-GRD3 (1-877-543-4733)
Flights within DC SFRA & FRZ *	1-866-225-7410

^{*} District of Columbia Special Flight Rules Area & Flight Restricted Zone

342 FAA AND NWS

KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

TAF KPIT 091730Z 091818 15005KT 5SM HZ.FEW020 WS010/31022KT FM1930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM +TSRA OVC008CB

FM0100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 1SM -RA BR FM1015 18005KT 6SM -SHRA OVC020 BECMG 1315 P6SM NSW SKC

METAR KPIT 091955Z COR 22015G25KT 3/4SM R28L/2600FT TSRA OVC010CB 18/16 A2992 RMK SLP045 T01820159

Forecast	Explanation	Report
TAF	Message type: <u>TAF-routine or TAF AMD-amended forecast, METAR-hourly, SPECI-special or TESTM-non-commissioned ASOS report</u>	METAR
KPIT	ICAO location indicator	KPIT
091730Z	Issuance time: ALL times in UTC "Z", 2-digit date, 4-digit time	091955 Z
091818	Valid period: 2-digit date, 2-digit beginning, 2-digit ending times	
	In U.S. METAR : <u>COR</u> rected ob; or <u>AUTO</u> mated ob for automated report with no human intervention; omitted when observer logs on	COR
15005KT	Wind: 3 digit true-north direction, nearest 10 degrees (or <u>VaRiaBle</u>); next 2-3 digits for speed and unit, <u>KT</u> (KMH or MPS); as needed, <u>G</u> ust and maximum speed; 00000KT for calm; for METAR , if direction varies 60 degrees or more, <u>V</u> ariability appended, e.g. 180 <u>V</u> 260	22015G25KT
5SM	Prevailing visibility: in U.S., Statute Miles & fractions; above 6 miles in TAF Plus6SM. (Or, 4-digit minimum visibility in meters and as required, lowest value with direction)	3/4SM
	Runway Visual Range: R; 2-digit runway designator Left, Center, or Right as needed; '/"; Minus or Plus in U.S., 4-digit value, FeeT in U.S., (usually meters elsewhere); 4-digit value Variability 4-digit value (and tendency Down, Up or No change)	R28L/2600FT
HZ	Significant present, forecast and recent weather: see table (on back)	TSRA
FEW020	Cloud amount, height and type: SKy Clear 0/8, FEW >0/8-2/8, SCaTtered 3/8-4/8, BroKeN 5/8-7/8, OVerCast 8/8; 3-digit height in hundreds of ft; Towering CUmulus or CumulonimBus in METAR; in TAF, only CB. Vertical Visibility for obscured sky and height "VV004". More than 1 layer may be reported or forecast. In automated METAR reports only, CLeaR for "clear below 12,000 feet"	OVC010CB
	Temperature: degrees Celsius; first 2 digits, temperature "/" last 2 digits, dew-point temperature; Minus for below zero, e.g., M06	18/16
	Altimeter setting: indicator and 4 digits; in U.S., A-inches and hundredths; (Q-hectoPascals, e.g., Q1013)	A2992

FAA AND NWS 343

KEY to AERODROME FORECAST (TAF) and **AVIATION ROUTINE WEATHER REPORT** (METAR)

Forecast	Explanation	Report
WS010/31022KT	In U.S. TAF , non-convective low-level (≤2,000 ft) <u>Wind Shear;</u> 3-digit height (hundreds of ft); "/"; 3-digit wind direction and 2-3 digit wind speed above the indicated height, and unit, <u>KT</u>	
	In METAR, ReMarK indicator & remarks. For example: Sea-Level Pressure in hectoPascals & tenths, as shown: 1004.5 hPa; Temp/dew-point in tenths °C, as shown: temp. 18.2°C, dew-point 15.9°C	RMK SLP045 T01820159
FM1930	<u>FroM</u> and 2-digit hour and 2-digit minute beginning time: indicates significant change. Each FM starts on new line, indented 5 spaces.	
TEMPO 2022	TEMPOrary: changes expected for < 1 hour and in total, < half of 2-digit hour beginning and 2-digit hour ending time period	
PROB40 0407	PROBability and 2-digit percent (30 or 40): probable condition during 2-digit hour beginning and 2-digit hour ending time period	
BECMG 1315	BECoMinG: change expected during 2-digit hour beginning and 2-digit hour ending time period	

Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in the order listed below; or as needed in TAF. No Significant Weather.

QUA	QUALIFIER						
Intens	Intensity or Proximity						
- L	ight	"no	sign* Moderate	+ 1	Heavy		
VC			erodrome; in U.S. M				
İ	observation; in	U.S.	TAF, 5 to 10SM fron	n ce	nter of runway comp	lex ((elsewhere within 8000m)
Desci	riptor						
MI	Shallow	BC	Patches	PR	Partial	TS	Thunderstorm
BL	Blowing	SH	Showers	DR	Drifting	FΖ	Freezing
WEA	THER PHEN	OME	NA				
Preci	pitation						
DZ	Drizzie		Rain	SN	Snow	SG	Snow grains
					Hail	GS	Small hail/snow pellets
		oitatio	on in automated obse	ervat	tions		
Obsc	uration						
	Mist (≥5/8SM)		Fog (<5/8SM)		Smoke	VA	Volcanic ash
SA	Sand	ΗZ	Haze	PΥ	Spray	DU	Widespread dust
Other	•						
	- 1	SS	Sandstorm	DS	Duststorm	PO	Well developed
FC.	Funnel cloud	+FC	tornado/waterspout				dust/sand whirls

- Explanations in parentheses "()" indicate different worldwide practices.

- Ceiling is not specified; defined as the lowest broken or overcast layer, or the vertical visibility.

 NWS TAFs exclude turbulence, icing & temperature forecasts; NWS METARs exclude trend fosts

 Although not used in US, Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility ≥10 km; no cloud below 5000 ft (1500 m) or below the highest minimum sector altitude, whichever is greater and no CB; and no precipitation, TS, DS, SS, MIFG, DRDU, DRSA or DRSN.

UNITED STATES DEPARTMENT OF COMMERCE

NOAA/PA 96052 National Oceanic and Atmospheric Administration—National Weather Service

FAA AND NWS KEY AIR TRAFFIC FACILITIES

Air Traffic Control System Command Center

Main Number......703–904–4400

RGNL AIR TRAFFIC DIVISIONS			
REGION	TELEPHONE		
Alaskan	907-271-5464		
Central	816-329-2500		
Eastern	718-553-4502		
Great Lakes	847-294-7202		
New England	781-238-7500		
Northwest Mountain	425-227-2500		
Southern	404-305-5500		
Southwest	817-222-5500		
Western Pacific	310-725-6500		

AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)

ARTCC NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS Hours	BUSINESS TELEPHONE #
Albuquerque	817-222-5006	7:30 a.m4:00 p.m.	505-856-4300
Anchorage	907-271-5936	7:30 a.m4:00 p.m.	907-269-1137
Atlanta	404-305-5180	7:30 a.m5:00 p.m.	770-210-7601
Boston	617-238-7001	7:30 a.m4:00 p.m.	603-879-6633
Chicago	847-294-8400	8:00 a.m4:00 p.m.	630-906-8221
Cleveland	847-294-8400	8:00 a.m4:00 p.m.	440-774-0310
Denver	425-227-1389	7:30 a.m4:00 p.m.	303-651-4100
Ft. Worth	817-222-5006	7:30 a.m4:00 p.m.	817-858-7300
Houston	817-222-5006	7:30 a.m4:00 p.m.	281-230-5300
Indianapolis	847-294-8400	8:00 a.m4:00 p.m.	317-247-2231
Jacksonville	404-305-5180	8:00 a.m4:30 p.m.	904-549-1501
Kansas City	816-329-3000	7:30 a.m4:00 p.m.	913-254-8500
Los Angeles	661-265-8200	7:30 a.m4:00 p.m.	661-265-8200
Memphis	404-305-5180	7:30 a.m4:00 p.m.	901-368-8103
Miami	404-305-5180	7:00 a.m3:30 p.m.	305-716-1500
Minneapolis	847-294-8400	8:00 a.m4:00 p.m.	651-463-5580
New York	718-995-5426	8:00 a.m4:40 p.m.	516-468-1001
Oakland	310-725-3300	6:30 a.m3:00 p.m.	510-745-3331
Salt Lake City	425-227-1389	7:30 a.m4:00 p.m.	801-320-2500
Seattle	425-227-1389	7:30 a.m4:00 p.m.	253-351-3500
Washington	718-995-5426	8:00 a.m4:30 p.m.	703-771-3401

MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONS)

TRACON NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Atlanta	404-305-5180	7:00 a.m3:30 p.m.	404-669-1200
Chicago	847-294-8400	8:00 a.m4:00 p.m.	847-608-5509
Dallas/Ft. Worth	817-222-5006	7:30 a.m4:00 p.m.	972-615-2500
Denver	425-227-1389	7:30 a.m4:00 p.m.	303-342-1500
Houston	817-222-5006	7:30 a.m4:00 p.m.	281-230-8400
New York	718-995-5426	8:00 a.m4:30 p.m.	516-683-2901
Northern CA	310-725-3300	7:00 a.m3:30 p.m.	916-366-4001
Southern CA	310-725-3300	7:30 a.m4:00 p.m.	858-537-5800

^{*}Facilities can be contacted through the RgnI Duty Officer during non-business hours.

FAA AND NWS

KEY AIR TRAFFIC FACILITIES

DAILY NAS REPORTABLE AIRPORTS

	*24 HR RGNL		
AIRPORT	DUTY OFFICE	BUSINESS	BUSINESS
NAME	TELEPHONE #	HOURS	TELEPHONE #
Albuquerque Intl Sunport, NM	817-222-5006	8:00 a.m5:00 p.m.	505-842-4366
Andrews AFB, MD	718–995–5426	8:00 a.m4:30 p.m.	301–735–2380
Baltimore/Washington			
Intl Thurgood Marshall, MD	718-995-5426	8:00 a.m4:30 p.m.	410-962-3555
Boston Logan Intl, MA	781–238–7001 617–238–7001	7:30 a.m4:00 p.m.	617–455–3100 203–627–3428
Bradley Intl, CT Burbank/Bob Hope, CA	310-725-3300	7:30 a.m4:00 p.m. 7:00 a.m5:30 p.m.	818-567-4806
Charlotte Douglas Intl, NC	404-305-5180	8:00 a.m.–4:30 p.m.	704–344–6487
Chicago Midway, IL	847-294-8400	8:00 a.m.–4:00 p.m.	773-884-3670
Chicago O'Hare Intl, IL	847-294-8400	8:00 a.m4:00 p.m.	773-601-7600
Cleveland Hopkins Intl, OH	847-294-8400	8:00 a.m4:00 p.m.	216-898-2020
Covington/Cincinnati, OH	708-294-7401	8:00 a.m4:30 p.m.	606-767-1006
Dallas/Ft. Worth Intl, TX	817-222-5006	8:30 a.m.–5:00 p.m.	972-615-2531
Dayton Cox Intl, OH	847-294-8400	7:30 a.m4:00 p.m.	937-454-7300
Denver Intl, CO	425-227-1389	7:30 a.m4:00 p.m.	303-342-1600
Detroit Metro, MI	847-294-8400	8:00 a.m4:00 p.m.	734-955-5000
Fairbanks Intl, AK	907-271-5936	7:30 a.m4:00 p.m.	907-474-0050
Fort Lauderdale Intl, FL	404-305-5180	7:00 a.m3:30 p.m.	305-356-7932
George Bush			
Intercontinental/Houston, TX	817-222-5006	7:30 a.m4:00 p.m.	713-230-8400
Hartsfield-Jackson Atlanta Intl, GA	404-305-5180	7:00 a.m3:30 p.m.	404-669-1200
Honolulu Intl, HI	310-643-3200	7:30 a.m4:00 p.m.	808-840-6100
Houston Hobby, TX	817-222-5006	8:00 a.m5:00 p.m.	713-847-1400
Indianapolis Intl, IN	847-294-8400	8:00 a.m4:00 p.m.	317-484-6600
Kahului/Maui, HI	310-643-3200	7:30 a.m4:00 p.m.	808-877-0725
Kansas City Intl, MO	816-329-3000	7:30 a.m4:00 p.m.	816-329-2700
Las Vegas McCarran, NV	310-725-3300	7:30 a.m4:00 p.m.	702–262–5978
Los Angeles Intl, CA	310-725-3300	7:00 a.m3:30 p.m.	310-342-4900
Memphis Intl, TN	404–305–5180	7:30 a.m4:00 p.m.	901–322–3350
Louis Armstrong New Orleans Intl, LA	817-222-5006	7:00 a.m4:30 p.m.	504-471-4300
Miami Intl, FL	404-305-5180	7:00 a.m4:00 p.m.	305-869-5400
Minneapolis/St. Paul, MN Nashville Intl, TN	847-294-8400 404-305-5180	8:00 a.m4:00p.m.	612-713-4000 615-781-5460
New York Kennedy Intl, NY	718-995-5426	7:00 a.m3:30 p.m. 8:00 a.m4:30 p.m.	718-656-0335
New York La Guardia, NY	718-995-5426	8:00 a.m.–4:30 p.m.	718-030-0333
Newark Liberty Intl, NJ	718-995-5426	8:00 a.m.–4:30 p.m.	973-645-3103
Norman Y. Mineta San Jose Intl, CA	310-643-3200	7:30 a.m4:00 p.m.	408-982-0750
Ontario Intl, CA	310-643-3200	7:30 a.m4:00 p.m.	909-983-7518
Orlando Intl, FL	404–305–5180	7:30 a.m.–5:00 p.m.	407-850-7000
Philadelphia Intl, PA	718-995-5426	8:00 a.m4:30 p.m.	215-492-4100
Phoenix Sky Harbor Intl, AZ	310-643-3200	7:30 a.m4:00 p.m.	602-379-4226
Pittsburgh Intl, PA	718-995-5426	8:00 a.m4:30 p.m.	412-269-9237
Portland Intl, OR	425-227-1389	7:30 a.m4:00 p.m.	503-493-7500
Raleigh-Durham, NC	404-305-5180	8:00 a.m4:30 p.m.	919-840-5544
Ronald Reagan Washington			
National, DC	718-995-5426	8:00 a.m4:30 p.m.	703-413-1535
Salt Lake City, UT	425-227-1389	7:30 a.m4:00 p.m.	801-325-9600
San Antonio Intl, TX	817-222-5006	8:00 a.m4:30 p.m.	210-805-5507
San Diego Lindbergh Intl, CA	310-725-3300	8:00 a.m4:30 p.m.	619-299-0677
San Francisco Intl, CA	310-643-3200	7:00 a.m3:30 p.m.	650-876-2883
San Juan Intl, PR	404–305–5180	7:30 a.m5:00 p.m.	809-253-8663
Seattle-Tacoma Intl, WA	425–227–1389	7:30 a.m4:00 p.m.	206-768-2900
St. Louis Lambert, MO	816-329-3000	7:30 a.m4:00 p.m.	314-890-1000
Tampa Intl, FL	404–305–5180	7:30 a.m4:00 p.m.	813-371-7700
Ted Stevens Anchorage Intl, AK	907-271-5936	7:30 a.m4:00 p.m.	907-271-2700
Teterboro, NJ	718-995-5426	8:00 a.m4:30 p.m.	201–288–1889
Washington Dulles Intl, DC	718–995–5426 404–305–5180	8:00 a.m4:30 p.m.	703–661–6031 407–683–1867
West Palm Beach, FL Westchester Co, NY	718-995-5426	8:00 a.m4:30 p.m.	914-948-6520
WESIGNESIEN CU, INT	110-990-0420	8:00 a.m4:30 p.m.	914-940-0020

^{*}Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel spacing) is required.

RCHICAGO CENTER 127.8 125.2

H-2-5-10-12, L-12-27-28-31, A-1 (KZAU)

Aurora - 123.75

Burlington - 135.6 Chicago Heights - 132.95

Crown Point - 127.8

Danville - 135.75

Des Plaines – 133.2 128.65 120.35 **Downers Grove –** 135.75 127.6

Dubuque - 127.775 133.95 **125.225 Ft. Wayne - 126.325** 119.85

Goshen - 133.9 135.9 127.55

Grand Rapids - 126.125 128.4

Hampshire - 134.2 133.35 Horicon - 135.55 132.75 132.225

Jones - 125.975 120.225

Kankakee – 132.5 120.125 **118.225** Lafayette – 123.85

Leroy - 119.225 Lone Rock - 133.3 Maple Park - 127.075

Milford - 135.4 132.5 127.45 125.05 120.175

Milwaukee - 134.75 132.3 125.1

Moline - 135.825 118.75

Monee - 133.425 Muskegon - 132.27

Oshkosh - 132.1 Pullman - 128.5 Rockford - 120.375

Rossville 125.375 120.975 South Bend – 135.35 Volk Fld 125.05

RCLEVELAND CENTER

H-2-5-10-11, L-27-28-29-30-31-32, A-2 (KZOB)

Algonac – 134.775 132.25 126.525 Belmont – 135.175 124.425 120.4 Carleton – 134.775 119.95

Chardon - 120.775

Detroit (North) - 120.075 Findlay - 135.1 127.675

Flint - 127.7 126.75

Holland - 135.775 121.175 Jackson - 134.65 127.3

Litchfield - 135.725 134.65 120.45

Mansfield - 134.9 133.375

Mt Hope - 120.6 Paris - 128.15 120.6

Saginaw - 133.525 127.7

Sandusky - 132.45 127.9 119.875 119.325

Waterville - 128.625

(R)INDIANAPOLIS CENTER - 133,425 132,775 128,375

125.55 124.525 119.55

Brookville - 135.8 135.125 120.575

Evansville - 132.525 128.3

Henryville - 134.275 133.05 124.775

London - 134.0 128.775 126.57 124.8 120.475

Marietta - 125.55

Merwyn - 135.575 134.7 123.925

Muncie - 120.65

New Hope - 124.625 121.175

Portsmouth - 135.575 124.225 120.275

Rosewood - 128.075

Terre Haute - 134.175 132.2

Winchester - 128.22 126.375 123.775

Zanesville - 133.775 132.825 125.075 124.45

(R)KANSAS CITY CENTER - 135.3

Decatur - 132.1 124.3

Effingham - 135.05 133.225 124.3

Kirksville - 134.625 132.6

Marion - 125.3

Mt Vernon - 132.875 127.7

Quincy - 135.525

St Charles - 125.9 121.25

St Louis - 128.1 127.225 125.5

Vandalia - 125.725

®MINNEAPOLIS CENTER

Central Wisconsin - 124.4

Duluth - 134.675 134.55 134.55 127.9

Eau Claire - 133.75 125.3

Escanaba - 127.65

Farmington - 133.7

Flying Cloud - 133.7 121.05

Green Bay - 125.55

Havward - 126.45

Houghton - 127.2

Iron Mountain - 133.45 121.25

Ironwood - 133.55

La Crosse - 128.6 118.85

Mosinee - 124.4

Pellston - 134.6 132.425

Princeton - 121.05

Rhinelander - 123.725 133.65

Rochester - 132.35 Saginaw - 118.05

Sawver - 119.1

Swinns Valley - 135.7 134.85

Traverse City - 132.9

White Cloud - 132.55 120.85

H-5-9-10-12, L-16-25-26-27-29

(KZID)

H-5-6, L-10-15-16-27, A-2

H-2-5-10-11, L-10-12-13-14-27-28-31

(KZKC)

(KZMP)

348 FLIGHT SERVICE STATION COMMUNICATION FREQUENCIES

VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. Frequencies in bold type are available all altitudes but recommended for use FL180 and above. "T" indicates transmit only and "R" indicates receive only. RCO's available at NAVAID's are listed after the NAVAID name. RCO's not at NAVAID's are listed by name.

CLEVELAND AESS

AKRON VOR/DME 114.4T 122.1R
BELLAIRE VOR/DME 117.1T 122.1R
BEILGS VOR/DME 117.1T 122.1R
CHARDON VOR/DME 112.7T 122.1R
CLEVELAND RCO 122.1R 122.2 122.35
DRYER VOR/DME 113.6T 122.1R
FINDLAY VORTAC 108.2T 122.1R 122.2 122.65
JEFFERSON VOR/DME 115.2T 122.1R
MANSFIELD VORTAC 108.8T 122.1R 122.6
NEWCOMERSTOWN VOR/DME 111.8T 122.1R
SANDUSKY VOR/DME 109.2T 122.1R
WATERVILLE VOR/DME 113.1T 122.1R
YOUNGSTOWN VORTAC 109.0T 122.1R 122.2

ZANESVILLE VOR/DME 111.4T 122.1R 122.2 122.5

DAYTON AFSS

ALLEN COUNTY VOR 108.4T 122.1R
ATHENS-ALBANY RCO 122.25
APPLETON VORTAC 116.7T 122.1R
CINCINNATI RCO 122.4
COLUMBUS RCO 122.2 122.3
DAYTON RCO 114.5T 122.1R 122.2 122.55
DAYTON VOR/DME 114.5T 122.1R
GALLIPOLIS RCO 121.65
HILLSBORO RCO 122.2
ROSEWOOD VORTAC 117.5T 122.1R
YELLOW BUD VOR 112.5T 122.1R

GREEN BAY AFSS

ASHLAND RCO 122.25

BLACK RIVER FALLS RCO 122.5

CHIPPEWA RCO 123.65

DELLS VORTAC 117.0T 122.1R

EAU CLAIRE RCO 122.65 123.6

ESCANABA RCO 122.3

FALLS VOR/DME 110.0T 122.1R

FOND DU LAC RCO 122.5

GREEN BAY RCO 122.2 122.55

HANCOCK RCO 122.525 123.65

HAYWARD VOR/DME 113.4T 122.1R

IRON MOUNTAIN VOR/DME 111.2T 122.1R

IRONWOOD RCO 122.3

JANESVILLE VOR/DME 114.3T 122.1R

KENOSHA VOR/DME 109.2T 123.6R

LA CROSSE RCO 122.2 122.35

LONE ROCK RCO 122.35

MACKINAC ISLAND RCO 122.35

MADISON RCO 122.6

MARSHFIELD RCO 122.55

MANITOWOC VOR/DME 111.0T 122.1R

MENOMINEE VOR/DME 109.6T 122.1R

MILWAUKEE RCO 122.4 122.65

MOSINEE RCO 122.525

NEWBERRY RCO 122.4

OSHKOSH VORTAC 111.8T 122.1R 122.25

PHILLIPS RCO 122.05

PLATTEVILLE RCO 122.5

PRAIRIE DU CHIEN RCO 122.25

RHINELANDER VORTAC 109.2T 122.1R

RICE LAKE RCO 122.3

SAULT STE MARIE VOR/DME 112.2T 122.1R

SAWYER RCO 123.6

SCHOOLCRAFT COUNTY RCO 122.25

SIREN VOR/DME 109.4T 122.1R

STEVENS POINT VORTAC 110.6T 122.1R

TIMMERMAN VOR/DME 112.5T 123.6R

WAUSAU RCO 122.4

WEST BEND VOR 109.8T 122.1R

WISCONSIN RAPIDS RCO 122.45

WOODRUFF RCO 122.6

KANKAKEE AFSS

BLOOMINGTON VOR/DME 108.2T 123.6R

BRADFORD VORTAC 114.7T 122.05R 123.6

CHICAGO HEIGHTS VORTAC 114.2T 122.1R

CHICAGO MEIGS RCO 122.15

DUPAGE VOR/DME 108.4T 122.1R 122.3

GALESBURG VOR/DME 109.8T 122.1R

JOLIET VORTAC 112.3T 122.1R 122.5

KANKAKEE VOR/DME 111.6T 122.1R 122.2

MACOMB RCO 122.15

MOLINE RCO 122.6

NEW LENOX RCO 122.5

PEORIA RCO 122.35

PEOTONE VORTAC 113.2T 122.05R

POLO VOR/DME 111.2T 122.1R

PONTIAC VOR/DME 109.6T 122.1R

ROCKFORD VOR/DME 110.8T 122.1R 122.65

WAUKEGAN RCO 122.55

LANSING AFSS

ALPENA VORTAC 108.8T 122.1R
BAD AXE RCO 122.65
BATTLE CREEK RCO 122.2
BARRIEN SPRINGS RCO 121.625
CARLETON VORTAC 115.7T 122.1R
DETROIT RCO 122.2 122.55
FLINT RCO 122.3
GAYLORD RCO 122.55
GRAND RAPIDS VOR/DME 115.95T 122.1R
JACKSON RCO 122.2
KALAMAZOO VOR/DME 109.0T 122.1R
KEELER VOR/DME 116.6T 122.1R
LANSING RCO 122.2
LITCHFIELD VOR/DME 111.2T 122.1R

LANSING RCO 122.2
LITCHFIELD VOR/DME 111.2T 122.1R
LUDINGTON RCO 122.45
MANISTEE VOR/DME 111.4T 122.1R
MOUNT PLEASANT RCO 122.6
MUSKEGON RCO 122.5
PECK VORTAC 114.0T 122.1R
PELLSTON RCO 122.2 122.3 123.6
PONTIAC VORTAC 111.0T 122.15R
PULLMAN VOR/DME 112.1T 122.1R

SAGINAW RCO 122.2 122.4 SALEM VORTAC 114.3T 122.1R TRAVERSE CITY RCO 122.2 **122.65**

WEST BRANCH RCO 122.35
WHITE CLOUD VORTAC 117.6T 122.1R

SAINT LOUIS AFSS 122.2 122.45

BIBLE GROVE VORTAC 109.0T 122.05R
CENTRALIA VORTAC 115.0T 122.1R
CHAMPAIGN VORTAC 110.0T 122.1R 122.45
DANVILLE VORTAC 111.0T 122.1R 122.3
MARION VORTAC 117.2T 122.1R 122.3
MARION VOR/DME 110.4T 122.1R
MATTOON VOR/DME 109.4T 123.6R
MOUNT VERNON VOR/DME 113.8T 122.05R
QUINCY VORTAC 113.6T 122.1R 122.5
ROBERTS VOR/DME 116.8T 122.1R
SAINT LOUIS REGIONAL RCO 122.05
SAMSVILLE VOR/DME 116.6T 122.1R
SPINNER VORTAC 112.7T 122.25
VANDALIA VORTAC 114.3T 122.1R

TERRE HAUTE AFSS

CROWNPOINT RCO 123.65 **EVANSVILLE RCO 122.65** FORT WAYNE RCO 122.2 122.45 GOSHEN VORTAC 113.7T 122.1R HOOSIER VORTAC 110.2T 122.1R INDIANAPOLIS RCO 122.55 KNOX VOR/DME 115.6T 122.1R KOKOMO VORTAC 113.5T 122.1R LAFAYETTE RCO 122.2 122.35 MUNCIE VOR/DME 114.4T 122.1R NABB VORTAC 112.4T 122.1R OSGOOD RCO 122.25 RICHMOND VORTAC 110.6T 122.1R SHELBYVILLE VORTAC 112.0T 122.1R SOUTH BEND RCO 122.6 TERRE HAUTE RCO 122.65 WASHINGTON RCO 122.2

FLIGHT STANDARDS DISTRICT OFFICES (FSDO)

Below is a list of FSDO's in the area of coverage of this directory. These offices serve the aviation industry and the general public on matters relating to certification and operation of general aviation aircraft. Address letters to Manager, Flight Standards District Office–Federal Aviation Administration.

ILLINOIS

DuPage Airport 31W775 North Avenue

West Chicago, Illinois 60185-1056

Telephone: 630-443-3100

Capital Airport

1250 North Airport Drive, Suite 1 Springfield, Illinois 62707-8417 Telephone: 217-744-1910

9950 West Lawrence Ave., Suite 400

Schiller Park, Illinois 60176 Telephone: 847-928-8000

INDIANA

8303 W. Southern Avenue Indianapolis, Indiana 46241 Telephone: 317-487-2400

1843 Commerce Drive, Suite 200 South Bend, Indiana 46628 Telephone: 219–245–4600

MICHIGAN

3196 Kraft Ave. SE, Suite 103 Grand Rapids, Michigan 49512 Telephone: 616–954–6657 Willow Run Airport 8800 Beck Road

Belleville, Michigan 48111 Telephone: 734–487–7222

OHIO

Great Northern Technology Park II 25249 Country Club Blvd. North Olmsted, Ohio 44070 Telephone: 440–686–2001

Lunken Airport Executive Building Ground Floor

4242 Airport Road Cincinnati, Ohio 45226 Telephone: 513–979–6400

Port Columbus International Airport 2780 Airport Drive, Suite 300 Columbus, Ohio 43219 Telephone: 614–255–3120

WISCONSIN

General Mitchell Intl Airport 4915 S. Howell Ave.

Milwaukee, Wisconsin 53207 Telephone: 414–486–2920 352 ROUTES

PREFERRED IFR ROUTES

A system of preferred routes has been established to guide pilots in planning their route of flight, to minimize route changes during the operational phase of flight, and to aid in the efficient orderly management of the air traffic using federal airways. The preferred IFR routes which follow are designed to serve the needs of airspace users and to provide for a systematic flow of air traffic in the major terminal and en route flight environments. Cooperation by all pilots in filing preferred routes will result in fewer traffic delays and will better provide for efficient departure, en route and arrival air traffic service.

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high altitude list is in two sections; the first section showing terminal to terminal routes and the second section showing single direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

- 1. Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flight are normally cleared directly on the airway.
- 2. Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).
- 3. Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.
- 4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.
 - 5. Where more than one route is listed the routes have equal priority for use.
 - 6. Official location identifiers are used in the route description for VOR/VORTAC navaids.
 - 7. Intersection names are spelled out.
- 8. Navaid radial and distance fixes (e.g., ARD201113) have been used in the route description in an expediency and intersection names will be assigned as soon as routine processing can be accomplished. Navaid radial (no distance stated) may be used to describe a route to intercept a specified airway (e.g., MIV MIV101 V39); another navaid radial (e.g., UIM UIM255 GSW031); or an intersection (e.g., GSW081 FITCH).
- 9. Where two navaids, an intersection and a navaid, a navaid and a navaid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.
- 10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Puerto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.
 - 11. (90-170 incl) altitude flight level assignment in hundred of feet.
- 12. The notations "pressurized" and "unpressurized" for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.
 - 13. High Altitude Preferred IFR Routes are in effect during the following time periods unless otherwise noted.

Sun	1300-2259 local time.
Mon thru Fri	0701-2259 local time.
Sat	0701-1459 local time.

- 14. Use current SIDs and STARSs for flight planning.
- 15. For high altitude routes, the portion of the routes contained in brackets [] is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

LOW ALTITUDE

F44 - - 43---

Terminals	Route	Effective Times (UTC)
CHICAGO METRO AREA		
From Midway (MDW) or O'Hare (ORD)		
Atlanta (ATL)	EON V171 TTH V243 GQO V333 DALAS ATL	
Denver (DEN)	SIMMN V172 OBH V219 HCT V8 DVV	
Indianapolis (IND)	EON V399 KENLA V128 JELLS	
Louisville (LOU)	EON V171 TTH V243 IIU279 CHERI	1100-0300
Memphis (MEM)	RBS V429 MWA V67 CNG V11 MIOLA	1600-2300
Miami (MIA)	EON V171 TTH V243 LGC V321 PZD V159 CTY V7	
	LAL V157 LBV V529 V35 CURVE	1100-0300
Pittsburgh (PIT)	GIJ V6 DJB V30 ACO V337 CUTTA	1100-0300
San Francisco (SFO)	SIMMN V172 PLL V158 DBQ V100 MBW V6 FMG	
	V6	
Tampa (TPA)	EON V171 TTH V243 LGC V321 PZD V159 CTY	
	V35 ENDED	
	or	
	(GPS or DME/DME-IRU Equipped) EON V171 TTH	
	V243 LGC V321 PZD V159 CTY V35 ENDED	

		Effective Times (UTC)
Terminals	Route	
Tulsa (TUL)	MZV BRL V63 SGF V14 EON V144 ESL V4 MANNE	0000-2359 1100-0300
From Midway (MDW) only		
Des Moines (DSM)	SIMMN V172 TNU	1100-0300
Detroit Metro-Wayne Co. (DTW)	GIJ V10 LFD MIZAR-STAR	
Detroit Satellites:		
Ann Arbor (ARB)		
Pontiac (PTK) Willow Run (YIP)	GIJ V10 LFD CRUXX-STAR	
Windsor (YQG)	GIJ VIO LID GROAX-STAR	
Young (DET)	GIJ ELX V218 LAN SPRTN-STAR	
Kansas City (MKC)	MZV BRL V10 IRK BQS-STAR	1100-0300
Omaha (OMA)	SIMMN V172 OVR	0000-2359
From O'Hare (ORD) only		
Cleveland (CLE)	GIJ V6 VWV WAKEM-STAR	1100-0300
Des Moines (DSM)	SIMMN V172 TNU	0000-2359
Detroit Metro-Wayne Co (DTW)	PETTY MKG POLAR-STAR	
Detroit Satellites:		
Ann Arbor (ARB)		
Pontiac (PTK)		
Willow Run (YIP)		
Windsor (YQG)		
Young (DET)	MUSKY V100 ELX V218 LAN SPRTN-STAR	
Kansas City (MKC)	MZV BRL V10 IRK BQS-STAR	
Memphis (MEM)	RBS V429 MWA V67 CNG V11 MIOLA	0000–2359
Muskegon (MKG)	PETTY V216	0000 0250
Omaha (OMA)	SIMMN V172 OVR PETTY MKG V216	0000–2359
Saginaw (MBS) From O'Hare (ORD) and North Satellite	PETIT WING V210	
Airports		
Detroit Metro-Wayne Co. (DTW)	(150-230 incl) PETTY MKG POLAR-STAR	1100-0300
CINCINNATI METRO AREA (CVG, LUK)	(130-230 IIICI) I ETTT WING I OLAK-STAK	1100-0300
Detroit/Wayne (DTW)	DQN MIZAR-STAR	1100-0300
Detroit Satellites:	- (· · · · - · · · · · · · · · · · · · · · · · · ·	
Ann Arbor (ARB)	DQN CRUXX-STAR	1100-0300
Pontiac (PTK)		
Willow Run (YIP)	DQN CRUXX-STAR	
Windsor (YQG)		
Young (DET)	V275 KLINE VWV VWV064 LYNTN	
From COVINGTON (CVG) only		
Atlanta (ATL)	V97 VXV V267 HRS V463 WOMAC	1100-0300
Chicago Midway (MDW)	V128 VHP BVT V97 CGT	1100-0300
Chicago O'Hare (ORD)	V128 VHP BVT V97 CGT V7 BEBEE	1100-0300
Indianapolis (IND)	V128 VHP	1100-0300
Knoxville (TYS)	HYK V97	1100 0200
Louisville (SDF)	CVG206 IIU055 IIU	1100-0300
Pittsburgh (PIT)	(60–170 incl) V128 YRK V44 JPU V117 WISKE WISKE–STAR	1100 0200
CLEVELAND METRO AREA (CLE, CGF, BKL, LNN, LPR)	WISHL-STAN	1100-0300
Baltimore (BWI)	(90-170 incl) ACO AIR V75 MGW V44 MRB V3	
	EMI	1100-0300
Boston (BOS)	(60–170 incl) V522 ERI V270 CFB V72 ALB V2 GDM GDM-STAR	1100-0300
Buffalo (BUF)	(60-170 incl) V522 ERI V43 WELLA	
Chicago Midway (MDW)	(60-170 incl) SKY VWV V126 CGT	1100-0300
Chicago O'Hare (ORD)	(60-170 incl) V45 VWV V126 HALIE V340	
	BEARZ	1100-0300
Columbus (CMH)	(60–170 incl) DJB DJB173 HERAK APE035 APE	
Dayton (DAY)	(60–170 incl) OBRLN-DP ROD	
Detroit/Wayne (DTW)	(60–170 incl) DJB DJB314 GEMNI GEMNI–	
	STAR	
Detroit Satellites:		
Ann Arbor (ARB)		
Pontiac (PTK)		

		Effective Times (UTC)
Terminals Willow Run (YIP)	Route	
Windsor (YQG)	(00 470)	4400 0000
Young (DET) Indianapolis (IND)	(60–170 incl) DJB LLEEO-STAR (60–170 incl) OBRLN-DP MIE MIE244 CLANG CLANG-STAR	1100-0300
Pittsburgh (PIT)	(60-170 incl) ACO V337 CUTTA	1100-0300
Rochester (ROC)	(60–170 incl) V522 ERI V14 BUF V2 CLUNG	1100-0300
Washington Dulles (IAD)	(90–170 incl) ACO AIR V75 MGW V144 ESL V4 AML	1100-0300
Washington Natl (DCA)	(90-170 incl) ACO AIR V75 MGW V44 MRB AML (90-170 incl) ACO AIR V75 MGW V144 ESL V4	1100-0300
	AML	1100-0300
COLUMBUS (CMH)	(00 470 in all MAC THE MEATAL CTAP	4400 0000
Cleveland (CLE) Pittsburgh (PIT)	(60-170 incl) V43 TVT KEATN-STAR (60-170 incl) APE V12 CTW WISKE-STAR	1100-0300 1100-0300
Toledo (TOL)	V493 VWV	1100-0300
DAYTON (DAY)	VEE VACO OCT	1100 0200
Chicago Midway (MDW) Chicago O'Hare (ORD)	V55 V422 CGT V55 FWA V340 BEARZ	1100-0300 1100-0300
Cleveland (CLE)	DQN ABERZ-STAR	1100-0300
Detroit Metro-Wayne Co (DTW)	DQN MIZAR-STAR	1100-0300
Detroit Satellites:		
Ann Arbor (ARB) Pontiac (PTK)		
Willow Run (YIP)	DQN CRUXX-STAR	
Windsor (YQG)	•	
Young (DET)	V275 KLINE VWV VWV064 LYNTN	
Washington Dulles (IAD)	(90–170 incl) ZZV V144 ESL V4 AML or	1100-0300
Weekington Netl (DCA)	(90–170 incl) ZZV V14 MGW V44 MRB AML	1100-0300 1100-0300
Washington Natl (DCA) DETROIT METRO AREA	(90-170 incl) ZZV V144 ESL V4 AML	1100-0300
(Detroit Metro-Wayne Co & Satellites)		
Albany (ALB)	(60-170 incl) TYCOB V116 BFD V72	1100-0300
Atlantic City (ACY)	(60–170 incl) ERRTH–DP CXR YNG V6 SEG V170 MXE V184	1100-0300
Boston (BOS)	(60-170 incl) TYCOB V116 BFD V72 ALB V2	
Duffala (DUE)	GDM	1100-0300
Buffalo (BUF) Chicago Midway (MDW)	(60–170 incl) TYCOB V90 DKK HARWL JXN V116 LEROY GSH CGT	1100-0300 1100-0300
Chicago O'Hare (ORD)	FWA-DP FWA KNOX-STAR	1100-0300
	FWA-DP FWA WATSON (RNAV)-STAR	
	HARWL JXN V116 ELX V100 DEERE	
	GRR MKG V510 FAH BJB OBK	
Cleveland (CLE)	MAARS ACO319 HIMEZ HIMEZ-STAR	4400 0000
Columbus (CMH) Fort Wayne (FWA)	CAVVS VWV FDY V279 GUNNE(60–170 incl, Props) HARWL JXN V221	1100-0300 1100-0300
Tort wayne (I WA)	or	1100-0300
	(60-170 incl, Jets) ANNTS DXO217 FWA071	1100-0300
Indianapolis (IND)	HARWL JXN V221 MIE V14 CLANG-STAR	1100-0300
Milwaukee (MKE) Montreal (CYUL)	(60–170 incl) DUNKS V170 PMM V170 PETTY (60–170 incl) TYCOB V116 ERI V270 ELZ V501	1100-0300
montreal (OTOL)	SYR MSS V203 FRANX FRANX-STAR	1100-0300
Pittsburgh (PIT)	(60–170 incl) ACO CUTTA–STAR	1100-0300
Rochester (ROC)	(60-170 incl) TYCOB YQG 098 SURLY DKK V14	
Companies (CVD)	BUF	1100-0300
Syracuse (SYR) Washington Natl (DCA)	(60–170 incl) TYCOB V116 ERI V14 GEE V84 (60–170 incl) ACO AIR V75 MGW V144 ESL V4	1100-0300
Washington Nati (DOA)	MANNE	1100-0300
Westchester Co (HPN)	(60–170 incl) TYCOB V116 ERI V270 V433 V157	1100 0000
	HAARP	1100-0300
	or	

Effective

		Times (UTC)
Terminals	Route	
	(60–170 incl, props less than 250 kts) TYCOB	4400 0000
EODT WAYNE (EWA)	V116 ERI V270 V433 V123 HAARP	1100-0300
FORT WAYNE (FWA) Moline (MLI)	V144 BDF V156 MZV	0000-2359
Rockford (RFD)	V144 SMARS V128	0000-2359
GREATER PEORIA RGNL (PIA)	V144 SWANS V120	0000-2339
Chicago Midway (MDW)	PIA PIA056 MOTIF JOT	
Chicago O'Hare (ORD)	PIA PIAO35 V10 PLANO	
INDIANAPOLIS (IND)		
Cleveland Metro Area (CLE) (CGF) (BKL)		
(LNN) (LPR)	(RNAV only/60-170 incl) DQN TOOOK MFD	
, , ,	ABERZ ABERZ-STAR	
	or	
	(all others/60-170 incl) DQN MFD MFD048	
	ABERZ ABERZ-STAR	
Detroit Metro-Wayne Co (DTW)	FWA MIZAR-STAR	
	FWA CRUXX-STAR	
Detroit Satellites:		
Ann Arbor (ARB)		
Pontiac (PTK)		
Willow Run (YIP)	FWA CRUXX-STAR	
Windsor (YQG)		
Young (DET)	V275 KLINE VWV VWV051 P00FE	
Evansville (EVV)	V305	
Kansas City (MKC)	V50 SPI BQS-STAR	0000-2359
Pittsburgh (PIT)	(60-170 incl) V50 DQN V12 CTW WISKE-STAR	1100-0300
Springfield (SGF)	V11 PXV V190	0000–2359
	Or TTU DID V70 FAM V400	0000 0250
Tuloo (TIII.)	TTH BIB V72 FAM V190 V11 PXV V190 SGF V14	0000-2359
Tulsa (TUL)Wichita (ICT)	TTH BIB V72 ENL V234 EMP V12	0000-2359 0000-2359
MILWAUKEE (MKE)	TITI BIB V72 LINE V234 LINF V12	0000-2339
Detroit Metro–Wayne Co (DTW)	(60-170 incl) SQUIB MKG POLAR-STAR	
Detroit Satellites:	(00-170 IIICI) SQUID IIIICA I OLAIK-STAIK	
Ann Arbor (ARB)		
Pontiac (PTK)		
Willow Run (YIP)		
Windsor (YQG)		
Young (DET)	GRR LAN SPRTN-STAR	
MOLINE (MLI)		
MOLINE (MLI) Fort Wayne (FWA)	V156 BDF V144	0000 2250
South Bend (SBN)	V156 BDF V144 MAPPS V156	0000-2359
ROCKFORD (RFD)	V130 BDI V144 WAFF3 V130	0000–2359
Fort Wayne (FWA)	V128 SMARS V144	0000-2359
South Bend (SBN)	V128 SMARS V144 MAPPS V156	0000-2359
SOUTH BEND (SBN)	V120 0W/W0 V144 WWW 10 V100	0000 2000
Moline (MLI)	V156 MAPPS V144 BDF V156 MZV	0000-2359
Rockford (RFD)	V156 MAPPS V144 SMARS V128	0000-2359
SPRINGFIELD (SPI)		
Chicago Midway (MDW)	PNT MOTIF-STAR	0000-2359
Chicago O'Hare (ORD)	PNT V227 PLANO	0000-2359
Springfield (SGF)	V50 UIN V63 SGF V14	0000-2359
Tulsa (TUL)	V50 UIN V63 SGF V14	0000-2359
TERRE HAUTE (HUF)		
Kansas City (MKC)	V50 SPI BQS-STAR	0000-2359
Springfield (SGF)	V7 PXV V190	0000-2359
Tulsa (TUL)	V7 PXV V190 SGF V14	0000–2359
SPECIAL LOW	ALTITUDE DIRECTIONAL ROUTES	
OI LOIAL LOW	ALLES DINESTRAL ROOTES	Effective
		Times
	Pouto	
Low Altitudo IED cingle direction route for the	Route ffic everflying ZOR ARTCC landing at ORD:	(UTC)
Low Altitude IFR single-direction route for tra Westbound	JXN V116 ELX V100 DEERE	
Low Altitude IFR single–direction route for tra		
Westbound	OXI KNOX–STAR	

Terminals

PREFERRED IFR ROUTES HIGH ALTITUDE

Route

Effective Times (UTC)

Terminais	Route	(UIC)
AKRON (CAK)		
Detroit/Wayne (DTW)	DJB DJB314 GEMNI GEMNI-STAR	
CHICACO METRO AREA (ORD. MDW)		
CHICAGO METRO AREA (ORD, MDW)	(DNAV and CHIDO 172 DVV DNA EDLIN	
Atlanta (ATL)	(RNAV only) GUIDO J73 PXV BNA ERLIN	
	(RNAV)-STAR	
	Or	
Politimara (PMII)	(all others) GUIDO J73 PXV BNA ROME-STAR	
Baltimore (BWI) Birmingham (BHM)	GIJ J146 J34 DJB J162 MGW EMI–STAR EON DNB BNA VUZ	
Boca Raton (BCT)	(GPS or DME/DME-IRU equipped) EON DNV TTH	
boca Naton (bor)	SWAPP ATL J89 OTK PRRIE (RNAV)-STAR	
Boston (BOS)	ELX CRL J554 JHW J82 ALB GDM GDM-STAR	
Bristol/Johnson/Kingsport (TRI)	EON DNV VHP J24 FLM HMV	
Charleston (CHS)	EON DNV VHP J24 FLM	
Charleston (CRW)	EON DNV VHP J24 FLM HVQ	
Charlotte (CLT)	EON DNV VHP J24 FLM JOHNS (RNAV)-STAR	
Chattanooga (CHA)	EON DNV	
Cincinnati (CVG)	(RNAV only) EON DNV CEGRM (RNAV)-STAR	
, ,	or	
	(all others) EON DNV SHELBYVILLE-STAR	
Columbia (CAE)	EON DNV VHP J24 FLM	
Columbus (CMH)	GIJ GIJ092036 FWA J178 APE	
Dallas/Fort Worth (DFW)	RBS STL RZC FSM BYP	
Dayton (DAY)	GIJ GIJ092036 FWA ROD DQN	
Denver (DEN)	IOW DSM J10 LBF SAYGE-STAR	
	or	
	PLL PLL275065 FOD J94 ONL J114 SNY	
	LANDR-STAR	
Detroit/Wayne (DTW)	PETTY MKG POLAR-STAR	
Evansville (EVV)	GUIDO	
Fort Lauderdale (FLL)	GUIDO J73 SZW J43 PIE FORTL-STAR	
	Or	
	EON DNV TTH SWAPP ATL J89 HITTR PIE	
	FORTL-STAR	
	Or	
	(GPS or DME/DME-IRU equipped) EON DNV TTH	
Greensboro (GSO)	SWAPP ATL J89 OTK JINGL (RNAV)-STAR EON DNV VHP J24 FLM	
Greer (GSP)	EON DNV VHP J24 FLM SOT SUG V185 UNMAN	
Harrisburg (MDT)	GIJ J146 J34 DJB J518 J152 HAR	
Huntsville (HSV)	EON DNV	
Jacksonville (JAX)	EON DNV TTH SWAPP ATL AMG ALMA-STAR	
Kennedy (JFK)	ELX CRL J554 JHW J70 LVZ LENDY-STAR	
Knoxville (TYS)	EON DNV VHP J24 FLM J43 VXV	
La Guardia (LGA)	GIJ J146 MIP MIP-STAR	
Memphis (MEM)	RBS FAM ARG GQE-STAR	
	or	
	GUIDO J73 PXV WLDER-STAR	
Miami (MIA)	GUIDO J73 SZW J43 PIE CYY-STAR	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) EON	
	DNV TTH SWAPP ATL SZW SSCOT	
	(RNAV)-STAR	
Myrtle Beach (MYR)	EON DNV VHP J24 FLM	
Nashville (BNA)	EON DNV TTH HEHAW-STAR	
Newark (EWR)	ELX CRL J584 SLT FQM-STAR	
Norfolk (ORF)	EON DNV VHP J24 MOL TERKS-STAR	
Oakland (OAK)	PLL PLL275065 FOD J94 ONL J148 OAL MOD	
	Or	4500 0455
	PLL PLL275065 FOD J94 LCU J158 MVA	1500-0400

Orlando Exec (ORL) EDN DNY THI BWG QOD AT LIBS OTK LESSE-STAR. Orlando Intl (MCO) Philadelphia (PHL) Phoenix (PHX) Or I 1146 CXF EWC STE BUINTS-STAR. I 1200-0400 Or I 1146 CXF EWC STE BUINTS-STAR. I 1200-0400 Or I 1146 CXF EWC STE BUINTS-STAR. I 1200-0400 OR I 1146 CXF EWC STE BUINTS-STAR. I 1200-0400 OR I 1146 CXF EWC STE BUINTS-STAR. I 1200-0400 OR I 1146 CXF EWC STE WINTS-STAR. I 1200-0400 OR I 1146 CXF EWC STE WINTS-STAR. I 1200-0400 OR I 1146 CXF EWC STE. Releigh-Durbam (RDU). EON DNY WHP J24 FLM SWW ROA SEV-STAR. Releigh-Durbam (RDU). EON DNY WHP J24 FLM SWW ROA SEV-STAR. RENDMON (RCA). SILP EXTERNATION (RCA). SILP EXTERNA	Terminals	Route	Effective Times (UTC)
LEESE-STAR			(010)
Philadelphia (PHL)			
Phoenix (PHX)			
Pittsburgh (PIT)			1200-0400
Pittsburgh (PIT)	THOCHIX (THX)		1200 0400
Potstown (PTW) GIJ J 146 CXR EWC JST Raleigh-Durham (RDU) EON DNV VHP J24 FLM BWR ROA SEV-STAR Richmond (RIC) EON DNV VHP J24 FLM MOL FAX Roanoke (ROA) EON DNV VHP J24 FLM MOL FAX Son Prancisco (SFO) PLL PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL 275065 FOD J94 FMG ILA PYE San Francisco (SFO) PLL 275065 FMG ILA PYE San Francisco (SFO) PLL 275065 FMG ILA PYE San Francisco (SFO) PLL 27			
Raleigh-Durham (RDU)			
EICHMOND (RIC)			
St. Petersburg-Clearwater (PIE)			
San Francisco (SFO)			
San Jose (SJC)			4500 0400
Sarasota/Bradenton (SRQ)			1500-0400
Sarasota/Bradenton (SRQ)	ea., 5000 (050)		
Tampa (TPA)		-	1500-0400
Or (GPS or DME/DME-IRU equipped) GUIDO J73 PXV J73 SZW FOXX (RNAV)—STAR			
Toledo (TOL)	Tampa (TFA)		
Toledo (TOL) GIJ 1146 PLAIN VW.		(GPS or DME/DME-IRU equipped) GUIDO J73 PXV	
Washington Dulles (IAD) GIJ 1146 J34 SHARR WZRRD-STAR Washington Natl (DCA) GIJ 1146 J34 SHARR WZRRD-STAR or (GPS or DME/DME-IRU equipped) GIJ J146 J34 BUCKO ELDEE (RNAV)-STAR or GIJ 1146 J34 SHAAR ELDEE (RNAV)-STAR (all others) EON DNV TTH SWAPP ATL OTK WLACE (RNAY)-STAR (recomposed) DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK WLACE (RNAY)-STAR (GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK WLACE (RNAY)-STAR or (GPS or DME/DME-IRU equipped) EON DNV TTH IIIU J99 VXV J43 WLACE (RNAV)-STAR windsor Locks (BDL) ELX CRL J554 JHW J82 WILET RKA292 RKA SWEDE-STAR SWEDE-STAR CHICAGO Midway (MDW) only Albany (ALB) Albany (ALB) LEWKE GIJ EVOTE NELLS KEEHO JHW J82 Atlanta (ATL) CMSKY CARYN CYBIL PXV J73 BNA ROME-STAR Or CMSKY CARYN CYBIL PXV J73 BNA ROME-STAR Baltimore (BWI) LEWKE GIJ OTENS ANEWA RIEKE DJB J34 AIR KEMAN WESTMINISTER-STAR Birmingham (BHM) CMSKY CARYN CYBIL PXV Bristol/Johnson/Kingsport (TRI) EARND ELANR EMMLY ETAME EMEGE FLM GPS or DME/DME-IRU			
Washington Natl (DCA)			
Or (GPS or DME/DME-IRU equipped) GIJ J146 J34 BUCKO ELDEE (RNAV)-STAR			
BUCKO ELDEE (RNAV)—STAR	Tradinington Hatt (5 oz.)		
West Palm Beach (PBI)			
West Palm Beach (PBI) GIJ J146 J34 SHAAR ELDEE (RNAV)-STAR			
Call others) EON DNV TTH SWAPP ATL OTK WLACE (RNAV)—STAR			
Or (GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK WLACE (RNAV)-STAR	West Palm Beach (PBI)		
(GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK WLACE (RNAV)-STAR			
DREGS DUMGE SWAPP ATL J89 OTK WLACE (RNAV)—STAR			
(RNAV)—STAR			
(GPS or DME/DME-IRU equipped) EON DNV TTH IIU J99 VXV J43 WLACE (RNAV)—STAR			
IIU J99 VXV J43 WLACE (RNAV)—STAR			
Or (all others) ORD EON DNV TTH SWAPP ATL OTK WLACE (RNAV)—STAR			
(all others) ORD EON DNV TTH SWAPP ATL OTK WLACE (RNAV)—STAR			
Windsor Locks (BDL) ELX CRL J554 JHW J82 WILET RKA292 RKA SWEDE-STAR			
CHICAGO Midway (MDW) only Albany (ALB)			
CHICAGO Midway (MDW) only	Windsor Locks (BDL)		
Albany (ALB)	CHICAGO Midway (MDW) only	SWEDE-STAR	
Atlanta (ATL)		LEWKE GIJ EVOTE NELLS KEEHO JHW J82	
or			
CMSKY CARYN CYBIL PXV BNA ERLIN (RNAV)—STAR. Baltimore (BWI)	Atlanta (ATL)		
Baltimore (BWI) LEWKE GIJ OTENS ANEWA RIEKE DJB J34 AIR KEMAN WESTMINSTER-STAR KEMAN WESTMINSTER-STAR CMSKY CARYN CYBIL PXV EARND ELANR EMMLY ETAME EMEGE FLM EARND ELANR EMMLY ETAME EMEGE FLM GPS or DME/DME-IRU equipped) GUIDO J73 SZW PRRIE (RNAV)-STAR Or GPS or DME/DME-IRU equipped) EON DNY TTH SWAPP ATL J89 OTK PRRIE (RNAV)-STAR Or GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK PRRIE (RNAV)-STAR DREGS DUMGE SWAPP ATL J89 OTK PRRIE (RNAV)-STAR LEWKE GIJ EVOTE NELLS KEEHO JHW J82 ALB			
Birmingham (BHM) Bristol/Johnson/Kingsport (TRI) Boca Raton (BCT) CMSKY CARYN CYBIL PXV. EARND ELANR EMMLY ETAME EMEGE FLM (GPS or DME/DME-IRU equipped) GUIDO J73 SZW PRRIE (RNAV)-STAR or (GPS or DME/DME-IRU equipped) EON DNV TTH SWAPP ATL J89 OTK PRRIE (RNAV)-STAR or (GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK PRRIE (RNAV)-STAR Boston (BOS) LEWKE GIJ EVOTE NELLS KEEHO JHW J82 ALB		(RNAV)-STAR	
Birmingham (BHM)	Baltimore (BWI)		
Bristol/Johnson/Kingsport (TRI) EARND ELANR EMMLY ETAME EMEGE FLM	Rirmingham (RHM)		
GPS or DME/DME—IRU equipped) GUIDO J73 SZW PRRIE (RNAV)—STAR	_ :		
or (GPS or DME/DME-IRU equipped) EON DNV TTH SWAPP ATL J89 OTK PRRIE (RNAV)-STAR or (GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK PRRIE (RNAV)-STAR			
(GPS or DME/DME-IRU equipped) EON DNV TTH SWAPP ATL J89 OTK PRRIE (RNAV)-STAR or (GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK PRRIE (RNAV)-STAR Boston (BOS)LEWKE GIJ EVOTE NELLS KEEHO JHW J82 ALB			
SWAPP ATL J89 OTK PRRIE (RNAV)-STAR or (GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK PRRIE (RNAV)-STAR			
(GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK PRRIE (RNAV)-STAR Boston (BOS)LEWKE GIJ EVOTE NELLS KEEHO JHW J82 ALB			
DREGS DUMGE SWAPP ATL J89 OTK PRRIE (RNAV)-STAR Boston (BOS)LEWKE GIJ EVOTE NELLS KEEHO JHW J82 ALB		or	
(RNAV)-STAR Boston (BOS) LEWKE GIJ EVOTE NELLS KEEHO JHW J82 ALB			
Boston (BOS) LEWKE GIJ EVOTE NELLS KEEHO JHW J82 ALB			
	Boston (BOS)		
		GARDNER-STAR	

Effective

		Times
Terminals	Route	(UTC)
Buffalo (BUF)	LEWKE GIJ EVOTE NELLS KEEHO DKK	
Charleston (CHS, CRW)	EARND ELANR EMMLY ETAME EMEGE FLM	
Charlotte (CLT)	EARND ELANR EMMLY ETAME FLM JOHNS	
	(RNAV)-STAR	
Chattanooga (CHA)	DENNT DARCY DREGS DONVE BWG	
Cincinnati (CVG)	DENNT DARCY DNV CEGRM (RNAV)-STAR	
	or	
Clausiand (CLE)	DENNT DARCY DNV SHB-STAR	
Cleveland (CLE)	elx crl himez-star	
	LEWKE GIJ CRL HIMEZ-STAR	
Columbia (CAE)	EARND ELANR EMMLY ETAME EMEGE FLM	
Columbus (CMH)	LEWKE GIJ SEWTO FWA GUNNE-STAR	
Dallas/Fort Worth (DFW)	ACITO ADELL ARLYN STL RZC FSM	
	BONHAM-STAR	
Detroit Metro-Wayne Co (DTW)	GIJ LFD MIZAR-STAR	
Detroit Metro Area (ARB, PTK, YIP)	GIJ LFD CRUXX-STAR	
Detroit Metro Area (DET, CYQG)	GIJ LAN SPRTN-STAR	1200-0400
Evansville (EVV)	DENNT DARCY DREGS DONVE DENNT DARCY DREGS DUMGE SWAPP ATL J89	
Fort Lauderdale (FLL)	OTK JINGL (RNAV)-STAR	
	or	
	(GPS or DME/DME-IRU equipped) DENNT DARCY	
	DREGS DUMGE SWAPP ATL J89 OTK JINGL	
	(RNAV)-STAR	
	or	
	EON DNV TTH IIU J99 VXV J46 AMG TAY JINGL	
	(RNAV)-STAR	
	or	
	(GPS or DME/DME-IRU equipped) EON DNV TTH	
Fort Myoro (DSM)	SWAPP ATL J89 OTK JINGL (RNAV)-STAR	
Fort Myers (RSW)	CMSKY CARYN CYBIL PXV J73 SZW TYNEE	
	(RNAV)-STARor	
	(GPS or DME/DME-IRU equipped) GUIDO J73 PXV	
	J73 SZW TYNEE (RNAV)-STAR	
Greensboro (GSO)	EARND ELANR EMMLY ETAME FLM PSK	
	SMOKN-STAR	
Greenville-Spartanburg (GSP)	EARND ELANR EMMLY ERECO IIU	
Houston (HOU)	(GPS or DME/DME-IRU equipped) BACEN BLOKR	
	BEKKI FAM J137 LIT J180 SWB ROKIT	
	(RNAV)-STAR	
	Or (Non-advanced NAV only) BACEN BLOKE BEKKI	
	(Non-advanced NAV only) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB DAS-STAR	
Houston (IAH)	(Turbojets-GPS or DME/DME-IRU equipped)	
Tiouston (I/III)	BACEN BLOKR BEKKI FAM J137 LIT J180 SWB	
	TXMEX (RNAV)-STAR	
	or	
	(Non-advanced NAV only) BACEN BLOKR BEKKI	
	FAM J137 LIT J180 SWB DAS-STAR	
Huntsville (HSV)	DENNT DARCY DREGS DONVE BWG	
Islip (ISP)	LEWKE GIJ EVOTE NELLS KEEHO JHW J70 STW	
leelseesille (IAV)	LENDY	
Jacksonville (JAX)	DENNT DARCY DREGS DUMGE SWAPP AMG	
La Guardia (LGA)	ALMA-STARLEWKE GIJ J146 ETG MILTON-STAR	
Memphis (MEM)	BACEN BLOKR BEKKI FAM ARG GILMORE-STAR	
	or	
	CMSKY CARYN CYBIL PXV WLDER-STAR	
Miami (MIA)	DENNT DARCY DREGS DUMGE SWAPP ATL SZW	
	J43 PIE CYPRESS-STAR	
	Or (Turbaista CDC as DME (DME ID)) a subsection	
	(Turbojets-GPS or DME/DME-IRU equipped)	
	DENNT DARCY DREGS DUMGE SWAPP ATL SZW	

J86 OTK SSCOT (RNAV)-STAR.....

Effective

Terminals	Route	Times (UTC)
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) GUIDO J73 SZW SSCOT (RNAV)-STAR or	
	(Turbojets-GPS or DME/DME-IRU equipped) EON DNV TTH IIU J99 VXV J46 AMG TAY SSCOT (RNAV)-STAR	
	or EON DNV TTH SWAPP ATL SZW J43 PIE CYPRESS-STAR	
Minneapolis (MSP)	BAE EAU-STAR LEWKE GIJ EVOTE NELLS KEEHO JHW J82 ALB EEN	1200-0400
Nashville (BNA)	CMSKY CARYN CYBIL PXV CCT HEHAW-STAR LEWKE GIJ EVOTE NELLS KEEHO J584 SLT FQM	
New Orleans (MSY)	WILLIAMSPORT-STAR BACEN BLOKR BEKKI ENL J71 MEM J35 MCB	
Norfolk (ORF)	RYTHM-STAR EARND ELANR EMMLY ETAME EMEGE FLM J24 MOL TERKS-STAR	
Orlando (MCO/ORL)	DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK PIGLT (RNAV)-STAR	
Phoenix (PHX	or DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK LEESE-STAR MZV J18 FTI J19 ZUN EAGUL (RNAV)-STAR or	1100-0400 1200-0400
Philadelphia (PHL)	MZV LMN J64 HLC LAA J102 GUP EAGUL (RNAV)—STAR LEWKE GIJ J146 CXR EWC JST BUNTS—STAR	
Pittsburgh (PIT)	LEWKE GIJ OTENS ANEWA RIEKE DJB ACO CUTTA-STAR	
Providence (PVD)	LEWKE GIJ EVOTE NELLS KEEHO JHW J82 MEMMS J522 HNK TEDDY	
Raleigh/Durham (RDU)	EARND ELANR EMMLY ETAME EMEGE FLM BKW ROA SOUTH BOSTON-STAR	
Richmond (RIC)	EARND ELANR ETAME EMEGE FLM J24 FAK	
Rochester (ROC)	LEWKE GIJ EVOTE NELLS KEEHO DKK BUF CMSKY CARYN CYBIL PXV J73 SZW	
Sarasota/Bradenton (SRQ) Tampa (TPA)	DARBS-STAR CMSKY CARYN CYBIL PXV J73 SZW CLAMP-STAR CMSKY CARYN CYBIL PXV J73 SZW FOOXX	
	(RNAV)-STAR or CMSKY CARYN CYBIL PXV J73 SZW	
	DARBS-STAR	
Teterboro (TEB)	LEWKE GIJ EVOTE NELLS KEEHO JHW J70 LVZ WILKES BARRE-STAR	
Trenton (TTN)	LEWKE GIJ J146 CXR EWC JST BUNTS-STAR LEWKE GIJ OTENS ANEWA RIEKE DJB J34 AIR	
5 ,	MGW MGW121 VERNI ESL ROYIL-STAR or	
	(GPS or DME/DME-IRU equipped) LEWKE GIJ OTENS ANEWA RIEKE DJB J34 AIR MGW VERNI	
Washington Natl (DCA)	ESL SHNON (RNAV)-STAR(GPS or DME/DME-IRU equipped) GIJ J146 J34 BUCKO ELDEE (RNAV)-STAR	
	or LEWKE GIJ OTENS ANEWA RIEKE DJB J34 SHAAR WZRRD-STAR or	
	(GPS or DME/DME-IRU equipped) LEWKE GIJ	
	OTENS ANEWA RIEKE DJB J34 SHAAR ELDEE (RNAV)-STAR	
White Plains (HPN)	LEWKE GIJ EVOTE NELLS KEEHO JHW ITH DNY	

VALRE-STAR

Effective Times (UTC)

Terminals	Route	(UTC)
Windsor Locks (BDL)	LEWKE GIJ EVOTE NELLS KEEHO JHW J82 WILET	
CHICAGO O'Hare (ORD) only	SWEDE-STAR	
Akron (CAK)	MOBLE ADIME OTENS VWV MFD V8 DALTS	
Albany (ALB)	EBAKE WISMO POSTS PADDE SVM DKK	
Allentown (ABE)	MOBLE ADIME GERBS J146 MIP	
Andrews AFB (ADW)	MOBLE ADIME OTENS ANEWA RIEKE DJB J34	
Atlanta (ATL)	SHAAR WZRRD-STAR CMSKY CARYN CYBIL PXV J73 BNA ROME-STAR	
	CMSKY CARYN CYBIL PXV BNA ERLIN (RNAV)-STAR	
Atlantic City (ACY)	MOBLE ADIME GERBS J146 CXR EWC JST J152 HAR SIE	
Baltimore (BWI)	MOBLE ADIME OTENS ANEWA RIEKE DJB J34 AIR KEMAN WESTMINSTER-STAR	
Bedford (BED)	EBAKE WISMO POSTS PADDE SVM DKK ALB GDM V431 LOBBY	
Birmingham (BHM)	CMSKY CARYN CYBIL PXV	
Boca Raton (BCT)	(GPS or DME/DME-IRU equipped) GUIDO J73	
, ,	SZW PRRIE (RNAV)-STAR	
	(GPS or DME/DME-IRU equipped) EON DNV TTH	
	SWAPP ATL J89 PRRIE (RNAV)-STAR	
	(GPS or DME/DME-IRU equipped) DENNT DARCY	
	DREGS DUMGE SWAPP ATL J89 OTK PRRIE (RNAV)-STAR	
Boston (BOS)	EBAKE WISMO POSTS PADDE SVM DKK ALB	
(1 1)	GARDNER-STAR	
Bristol/Johnson/Kingsport (TRI)	EARND ELANR EMMLY ETAME EMEGE FLM	
Buffalo (BUF)	DUFEE ELX HAAKK DOXXY SOSIC COHOW DKK	
Burlington (BTV)	EBAKE WISMO POSTS PADDE SVM DKK SYR J29	
01 1 1 (0110 0011)	LAGGS	
Charleston (CHS, CRW)	EARND ELANR EMMLY ETAME EMEGE FLM	
Charlotte (CLT)	EARND ELANR EMMLY ETAME FLM JOHNS	
Chattanooga (CHA)	(RNAV)-STAR DENNT DARCY DREGS DONVE BWG	
Cincinnati (CVG)	DENNT DARCY DNV CEGRM (RNAV)-STAR	
ememmati (eva)	or	
	DENNT DARCY DNV SHELBYVILLE-STAR	
Cleveland (CLE)	DUFEE ELX HIMEZ-STAR	
Columbia (CAE)	EARND ELANR EMMLY ETAME EMEGE FLM	
Columbus (CMH)	MOBLE ADIME SEWTO FWA GUNNE-STAR	
Dallas/Fort Worth (DFW)	ACITO ADELL ARLYN STL RZC FSM	
Denies (DEN)	BONHAM-STAR	
Denver (DEN)	IOW DSM J10 LBF SAYGE-STAR	
Detroit Metro-Wayne Co (DTW)	DBQ J94 ONL J114 SNY LANDR-STAR	
Detroit Metro Area (DET, CYQG, PTK, YIP,	PETTY MKG POLAR-STAR	4000 0400
ARB) Evansville (EVV)	PETTY GRR LAN SPRTN-STAR DENNT DARCY DREGS DONVE	1200-0400
Fort Lauderdale (FLL)	DENNT DARCY DREGS DUMGE SWAPP ATL J89	
Torc Lauderdale (LE)	OTK JINGL (RNAV)-STAR	
	or DENNT DARCY DREGS SWAPP ATL J89 OTK JINGL	
	(RNAV)-STAR	
	(GPS or DME/DME-IRU equipped) EON DNV TTH	
Fort Myers (RSW)	IIU J99 VXV J46 AMU TAY JINGL (RNAV)-STAR (GPS or DME/DME-IRU equipped) CMSKY CARYN	
TOTE WIYETS (NOW)	CYBIL PXV J73 SZW TYNEE (RNAV)-STAR	
	or	
	(GPS or DME/DME-IRU equipped) GUIDO J73 PXV	
	J73 SZW TYNEE (RNAV)–STAR	
Greensboro (GSO)	EARND ELANR EMMLY ETAME EMEGE FLM PSK	
	SMOKN-STAR	

Effective Times (UTC)

	. .	Times
Terminals	Route	(UTC)
Greenville/Spartanburg (GSP)	EARND ELANR EMMLY ERECO IIU	
Harrisburg (MDT)	MOBLE ADIME GERBS J146 CXR EWC HAR	
Houston (HOU)	(GPS or DME/DME-IRU equipped) BACEN BLOKR	
	BEKKI FAM J137 LIT J180 SWB ROKIT	
	(RNAV)-STAR	
	Or	
	(Non-advanced NAV only) BACEN BLOKR BEKKI	
Haveton (IAH)	FAM J137 LIT J180 SWB DAS-STAR	
Houston (IAH)	(Turbojets-GPS or DME/DME-IRU equipped)	
	BACEN BLOKR BEKKI FAM J137 LIT J180 SWB	
	TXMEX (RNAV)-STAR	
	Or (Non-advanced NAV only) BACEN BLOKE BEKKI	
	(Non-advanced NAV only) BACEN BLOKR BEKKI	
Huntavilla (HSV)	FAM J137 LIT J180 SWB DAS-STAR DENNT DARCY DREGS DONVE BWG	
Huntsville (HSV) Hyannis (HYA)	EBAKE WISMO POSTS PADDE SVM DKK ALB ENE	
пуанны (пта)		
Indianapolis (IND)	LFV EARND ELANR EMMLY JAKKS	
Jacksonville (JAX)	DENNT DARCY DREGS DUMGE SWAPP ATL AMG	
Jacksonvine (JAX)	ALMA-STAR	
Kennedy (JFK)	DUFEE ELX HAAKK DOXXY SOSIC JHW J70 LVZ	
Neimedy (3114)	LENDY-STAR	
Knoxville (TYS)	EARND ELANR EMMLY ETAME EMEGE J43 VXV	
La Guardia (LGA)	MOBLE ADIME GERBS J146 ETG MILTON-STAR	
Louisville (LOU)	DENNT DARCY DREGS DUMGE CHERI	
Manchester (MHT)	EBAKE WISMO POSTS PADDE SVM DKK ALB EEN.	
Memphis (MEM)	BACEN BLOKR BEKKI FAM ARG GILMORE-STAR	
	or	
	CMSKY CARYN CYBIL PXV WLDER-STAR	
Miami (MIA)	DENNT DARCY DREGS DUMGE SWAPP ATL SZW	
	J43 PIE CYPRESS-STAR	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped)	
	DENNT DARCY DREGS DUMGE SWAPP ATL J89	
	SSCOT (RNAV)-STAR	
	or	
	(Turbojets–GPS or DME/DME–IRU equipped)	
	GUIDO J73 SZW SSCOT (RNAV)-STAR	
	or	
	(Turbojets–GPS or DME/DME–IRU equipped) EON	
	DNV TTH IUU J99 VXV J46 AMG TAY SSCOT	
	(RNAV)-STAR	
	Or	
	EON DNV TTH SWAPP ATL SZW J43 PIE	
Minneaudia (MCD)	CYY-STAR	1000 0100
Minneapolis (MSP) Nashville (BNA)	PLL PLL275065 ALO KASPR-STAR CMSKY CARYN CYBIL PXV CCT HEHAW-STAR	1200-0400
Niagara Falls (IAG)	EBAKE WISMO POSTS PADDE SVM YXU	
Newark (EWR)	DUFEE ELX HAAKK DOXXY SOSIC KEEHO J584	
Newark (LWIT)	SLT FOM WILLIAMSPORT-STAR	
New Orleans (MSY)	BACEN BLOKR BEKKI ENL J71 MEM J35 MCB	
non chedic (iic.)	RYTHM-STAR	
	or	
	EARND ELANR EMMLY ERECO IIU RYANS	
Norfolk (ORF)	EARND ELANR EMMLY ETAME EMEGE FLM J24	
	MOL TERKS-STAR	
Newburgh (SWF)	DUFEE ELX HAAKK DOXXY SOSIC JHW ITH DNY	
	V483 FILPS	
New Haven (HVN)	DUFEE ELX HAAKK DOXXY SOSIC JHW RKA	
	DENNA-STAR	

Effective

		Times
Terminals	Route	(UTC)
Orlando (MCO/ORL)	DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK PIGLT (RNAV)-STAR	
	or DENNT DARCY DREGS DUMGE SWAPP ATL	
	LEESE-STARor	
	DENNT DARCY DREGS DUMGE SWAPP ATL J89	
	OTK LEESE-STAR	1100-0400
Philadelphia (PHL)	MOBLE ADIME GERBS J146 CXR EWC JST	
Phoenix (PHX)	BUNTS-STAR MZV J18 FTI J19 ZUN EAGUL (RNAV)-STAR	1200-0400
	or	
	MZV LMN J64 HLC LAA J102 GUP EAGUL (RNAV)-STAR	
Pittsburgh (PIT)	MOBLE ADIME OTENS ANEWA RIEKE DJB ACO	
g (/	CUTTA-STAR	
Portland (PWM)	EBAKE WISMO POSTS PADDE SVM DKK ALB CON	
	PARSOor	
	MOBLE ADIME GERBS J146 CXR EWC JST SIE	
Providence (PVD)	DUFEE ELX HAAKK DOXXY SOSIC JHW J82	
Deletab (Decaberos (DDII)	MEMMS J522 HNK TEDDY-STAR	
Raleigh/Durham (RDU)	EARND ELANR EMMLY ETAME EMEGE FLM BKW ROA SOUTH BOSTON-STAR	
Richmond (RIC)	EARND ELANR EMMLY ETAME EMEGE FLM J24	
	FAK	
Roanoke (ROA)	EARND ELANR EMMLY ETAME EMEGE FLM	
Rochester (ROC)	DUFEE ELX HAAKK DOXXY SOSIC COHOW DKK BUF	
Saint Petersburg/Clearwater (PIE)	CMSKY CARYN CYBIL PXV J73 SZW	
San Juan (TJSJ)	DARBS-STAR MOBLE ADIME GERBS J146 CXR EWC JST SIE	
Sarasota/Bradenton (SRQ)	CMSKY CARYN CYBIL PXV J73 SZW CLAMP-STAR	
Syracuse (SYR)	EBAKE WISMO POSTS PADDE SVM DKK	
Tampa (TPA)	CMSKY CARYN CYBIL PXV J73 SZW	
	DARBS-STAR	
	or CMSKY CARYN CYBIL PXV J73 SZW FOOXX	
	(RNAV)-STAR	
Washington Dulles (IAD)	MOBLE ADIME OTENS ANEWA RIEKE DJB J34 AIR	
	MGW MGW121 VERNI ESL ROYIL-STAR	
	(GPS or DME/DME-IRU equipped) MOBLE ADIME	
	OTENS ANEWA RIEKE DJB J34 AIR MGW VERNI	
	ESL SHNON (RNAV)-STAR	
Washington Natl (DCA)	MOBLE ADIME OTENS ANEWA RIEKE DJB J34	
	BUCKO BUCKO-STAR	
	MOBLE ADIME OTENS ANEWA RIEKE DJB J34	
	SHAAR WZRRD-STAR	
	or (GPS OR DME/DME-IRU equipped) MOBLE ADIME	
	OTENS ANEWA RIEKE DJB J34 SHAAR ELDEE	
	(RNAV)-STAR	
White Plains (HPN)	DUFEE ELX HAAKK DOXXY SOSIC JHW ITH DNY VALRE-STAR	
Wilkes-Barre/Scranton (AVP)	DUFEE ELX HAAKK DOXXY SOSIC JHW J106 LVZ	
Windsor Locks (BDL)	DUFEE ELX HAAKK DOXXY SOSIC JHW J82 WILET	
	SWEDE-STAR	
CINCINNATI (CVG)	(DNAV anti-) DOOKT (DNA) () DD DOOKT CADDE	
Albany (ALB)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
Allentown (ABE)	AHTIY PSB(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
	AHTIY JST HAR	

Effective Times

Terminals	Route	Times (UTC)
Atlanta (ATL)	(RNAV only) BLUEGRASS-DP BWG ERLIN	(0.0)
	(RNAV)-STAR	
Baltimore (BWI)	(all others) BLUEGRASS-DP BWG ROME-STAR V128 YRK HVQ J8 CSN OTT-STAR	
	or (GPS or DME/DME-IRU equipped) V128 YRK HVQ	
Pirmingham (PHM)	J8 CSN RAVNN (RNAV)-STAR	
Birmingham (BHM) Boca Raton (BCT)	BLUEGRASS-DP TRFWA LVT SYI VUZ (GPS or DME/DME-IRU equipped)	
	BLUEGRASS-DP TRFWA NOTWO WALET HITTR LATHY PRRIE (RNAV)-STAR	
	(GPS or DME/DME-IRU equipped)	
	BLUEGRASS-DP HYK VXV J43 ATL J89 OTK	
Boston (BOS)	PRRIE (RNAV)-STAR(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
	AHTIY PSB HNK ALB GDM GARDNER-STAR	
Chicago O'Hare (ORD)	(Advanced Nav only) MIE MZZ ROYKO-STAR or	
	(Non-Advanced Nav only) DQN FWA KNOX-STAR or	
Dallas/Fort Worth (DFW)	DQN FWA WATSN (RNAV)-STARIIU PXV J131 LIT BYP	
Fort Lauderdale (FLL)	(GPS or DME/DME–IRU equipped)	
	BLUEGRASS-DP TRFWA NOTWO OTK JINGL (RNAV)-STAR	
	or (all others) BLUEGRASS-DP HYK VXV J43 ATL J89 HITTR J75 FORTL-STAR	
Fort Myers (FMY)	(Turbojets-GPS or DME/DME-IRU equipped) HYK VXV J43 SZW TYNEE (RNAV)-STAR	
Fort Myers (RSW)	(GPS or DME/DME-IRU equipped) HYK VXV J43	
Harrisburg (MDT)	SZW TYNEE (RNAV)-STAR (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY JST HAR	1100-0300
Houston (HOU)	(GPS or DME/DME-IRU equipped) LIT J180 SWB ROKIT (RNAV)-STAR	
	or (Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR	
Houston (IAH)	(Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR	
	or (Non-advanced NAV only) LIT J180 SWB	
Jackson (JAN)	DAS-STAR BLUEGRASS-DP TRFWA LVT SYI VUZ JAN	
La Guardia (LGA)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
Manchester (MHT)	AHTIY PSB MILTON-STAR(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	1000–1800
Marco Island (MKY)	AHTIY PSB ALB EEN HYK VXV J43 SZW PIKKR (RNAV)–STAR	
Miami (MIA)	(Turbojets-GPS or DME/DME-IRU equipped) BLUEGRASS-DP TRFWA NOTWO SZW SSCOT	
	(RNAV)-STAR	
	(all others) BLUEGRASS-DP HYK VXV J43 ATL SZW J43 PIE CYY-STAR	
Mobile (MOB)	BLUEGRASS-DP TRFWA LVT SYI VUZ SJI	
Naples (APF)	HYK VXV J43 SZW PIKKR (RNAV)-STAR ROD J29 J584 SLT FQM-STAR	
Newark (EWR) Newburg (SWF)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
New Orleans (MSY)	AHTIY PSB J49 HNK DNY V483 FILPS BLUEGRASS-DP TRFWA LVT SYI VUZ J22 MEI	
	RYTHM-STAR	1100 0300
Orlando Exec (ORL)	HYK VXV J99 IRQ J85 AMG LEESE-STAR	1100-0300

erminals	Route	Effective Times (UTC)
	or	(
	(GPS or DME/DME-IRU equipped) HYK VXV J99 IRQ J85 AMG SHEMP MTATA PIGLT	
Orlando Intl (MCO)	(RNAV)-STAR HYK VXV J99 IRQ J85 AMG LEESE-STAR or	1100-0400 1100-0300
	(GPS or DME/DME-IRU equipped) HYK VXV J99	
Philadelphia (PHL)	IRQ J85 AMG BUGGZ (RNAV)-STAR (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	1100-0400
Phoenix (PHX)	AHTIY JST BUNTS-STARFAM J78 ABQ J18	
	or	
Portland (PWM)	FAM J78 IRW J74 SJN J18(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
Providence (PVD)	AHTIY PSB J49 ALB ENE(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
. ,	AHTIY PSB J49 HNK TEDDY-STAR	
Sarasota/Bradenton (SRQ)	HYK VXV J43 SZW CLAMP-STAR	
Tampa (TPA)	HYK VXV J43 SZW DARBS-STARor	
	(GPS or DME/DME-IRU equipped) HYK VXV J43	
Markington Bullon (IAB)	SZW FOXXX (RNAV)-STAR	
Washington Dulles (IAD)	V128 YRK HVQ ROYIL-STAR	
	V128 YRK HVQ SHNON (RNAV)-STAR	
Washington Natl (DCA)	V128 YRK HVQ WZRRD-STARor	
	V128 YRK HVQ ELDEE (RNAV)-STAR	
West Palm Beach (PBI)	(GPS OR DME/DME-IRU equipped)	
	BLUEGRASS-DP TRFWA NOTWO OTK WLACE	
	or (GPS or DME/DME-IRU equipped)	
	BLUEGRASS-DP HYK VXV J43 ATL J89 OTK	
William Daws (Carantan (AVD)	WLACE	
Wilkes Barre/Scranton (AVP)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB LVZ	
Windsor Locks (BDL)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
om LUNKEN (LUK) only	AHTIY PSB RKA SWEDE SWEDE-STAR	
rom LUNKEN (LUK) only: Albany (ALB)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
	AHTIY PSB	
Boston (BOS)	(RNAV only) ROCKT (RNAV)—DP ROCKT CADRE	
La Guardia (LGA)	AHTIY PSB HNK ALB GDM GARDNER-STAR (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
(,	AHTIY PSB MILTON-STAR	1000-1800
Manchester (MHT)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
Newburgh (SWF)	AHTIY PSB ALB EEN(RNAV) ONLY PROCKT CADRE	
	AHTIY PSB J49 HNK DNV V483 FILPS	
Philadelphia (PHL)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
Providence (PVD)	AHTIY JST BUNTS-STAR(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
	AHTIY PSB J49 HNK TEDDY-STAR	
Portland (PWM)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
Wilkes Barre/Scranton (AVP)	AHTIY PSB J49 ALB ENE(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
WIINCS Daile/ Scialitoli (AVF)	AHTIY PSB LVZ	
Windsor Locks (BDL)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
LEVELAND METRO (CLE, CGF, BKL,	AHTIY PSB RKA SWEDE SWEDE-STAR	
NN, LPR)		
Atlanta (ATL)	(RNAV only) DJB DJB173 HERAK APE035 APE J186 SOT ODF FLCON (RNAV)-STAR	
	or (all others) DJB DJB173 HERAK APE035 APE	
	J186 SOT ODF WHINZ-STAR	

Effective Times (UTC)

Terminals	Route
Battle Creek (BTL) Birmingham (BHM) Boca Raton (BCT)	AMRST-DP VWV DJB DJB173 HERAK APE035 APE J186 BULEY (GPS or DME/DME-IRU equipped) DJB DJB173 HERAK APE035 APE J83 SPA J85 TAY PRRIE (RNAV)-STAR
Charleston (CHS)	DJB DJB173 HERAK APE035 APE J186 BULEY DJB DJB173 HERAK APE035 APE DJB DJB173 HERAK APE035 APE HVQ HMV JOHNS (RNAV)-STAR
Chicago Midway (MDW)	AMRST-DP VWV GSH GSH-STAR AMRST-DP VWV ZANLA WATSON (RNAV)-STAR or
Chicago Rockford (RFD)	AMRST-DP VWV OXI KNOX-STAR
Dallas/Fort Worth (DFW)	(all others) DJB DJB173 HERAK APE035 APE CINCE-STAR OBRLN-DP RID RID234/40 PXV LIT
Denver (DEN)Elkhart (EKM)	BONHAM-STAR AMRST-DP VWV GSH AMRST-DP VWV GSH
Fort Lauderdale (FLL)	DJB DJB173 HERAK APE035 APE J83 SPA J85 TAY J75 HITTR PIE FORTL-STAR or (GPS or DME/DME-IRU equipped) DJB DJB173 HERAK APE035 APE J83 SPA J85 TAY J75
Fort Myers (FMY)	JINGL (RNAV)-STAR DJB DJB200 APE021 APE J186 J91 VXV J43 SZW TYNEE (RNAV)-STAR
Fort Myers (RSW)	(GPS OR DME/DME-IRU equipped) DJB DJB173 HERAK APE035 APE J186 J91 VXV J43 SZW TYNEE (RNAV)-STAR
Fort Wayne (FWA)	OBRLN-DP FWA
Grand Rapids (GRR)	(RNAV only) ALPHE-DP ALPHE DJB DJB173 HERAK APE035 APE J186 BULEY (GPS or DME/DME-IRU equipped) OBRLN-DP RID RID234/40 PXV LIT J180 SWB ROKIT
Houston (IAH)	(RNAV)-STAR
Jacksonville (JAX)	(Turbojets-GPS or DME/DME-IRU equipped) OBRLN-DP RID234/40 PXV LIT J180 SWB TXMEX (RNAV)-STAR DJB DJB173 HERAK APE035 APE J83 SPA J85
Kalamazoo/Battle Creek (AZO) Kansas City (MCI) Kennedy (JFK) La Guardia (LGA) Knoxville (TYS) Las Vegas (LAS)	AMG ALM-STAR
Lewisburg (LWB) Lexington (LEX) Little Rock (LIT) Los Angeles (LAX) Louisville (SDF)	AMRST-DP VWV GSH

Effective

*	P	Times
Terminals	Route	(UTC)
Minneapolis (MSP)	(RNAV only) ALPHE-DP ALPHE J70 PMM BAE EAU-STAR	
	or	
	AMRST-DP CRL J34 BAE EAU-STAR	
Madison (MSN)	(RNAV only) ALPHE-DP ALPHE J70 PMM	
Marco Island (MKY)	DJB DJB200 APE021 APE J186 J91 VXV J43 SZW	
	PIKKR (RNAV)-STAR	
	DJB DJB200 APE021 APE J186 J91 ATL J89 J75	
	TEPEE ZEILR-STAR	
Memphis (MEM)	OBRLN-DP RID RID234/40 PXV WLDER-STAR	
Miami (MIA)	DJB DJB173 HERAK APE035 APE J83 SPA J85 TAY J75 HITTR PIE CYPRESS-STAR	
	(/E/G/R/J/L/Q only) DJB DJB173 HERAK APE035 APE J83 SPA J85 TAY J75 RSW DEEDS	
	(RNAV)-STAR	
Milwaukee (MKE)	AMRST-DP CRL CRL316/75 MKG V2 SUDDS	
Myrtle Beach (MYR)	DJB DJB173 HERAK APE035 APE	
Naples (APF)	DJB DJB200 APE021 APE J186 J91 VXV J43 SZW	
Napies (AFI)		
Name (DAIA)	PIKKR (RNAV)-STAR	
Nashville (BNA)	OBRLN-DP IIU GUITR-STAR	
Newark (EWR)	V522 J584 SLT FQM-STAR	
New Orleans (MSY)	OBRLN-DP RID IIU MCB RYTHM-STAR	
Orlando (ORL)	(RADAR and DME required) DJB DJB200 APE021	
	APE J83 SPA CAE SAV OMN CORLL-STAR	1100-0400
Orlando (MCO)	DJB DJB173 HERAK APE035 APE J83 SPA CAE SAV OMN BITHO-STAR	
	or	
	(GPS or DME/DME-IRU equipped) DJB DJB173	
	HERAK APEO35 APE J83 SPA CAE SAV OMN	
	CWRLD (RNAV)-STAR	1100-0400
Palwaukee (PWK)	(RNAV only) ALPHE–DP ALPHE J70 PMM OBK	1100 0400
Philadelphia (PHL)	ACO ACO145 J518 J152 HAR V210 BUNTS	
Phoenix (PHX)	OBRLN-DP VHP STL	
THOUTING (TTIN)	or	
	AMRST-DP VWV GSH	
Raleigh/Durham (RDU)	DJB DJB173 HERAK APE035 APE HVQ BKW ROA	
Raicign/ Damain (RDO)	-	
One Antonio (OAT)	SOUTH- BOSTON-STAR	
San Antonio (SAT)	OBRLN-DP RID RID234/40 PXV J131 LIT J101	
0 5	LFK MARCS-STAR	
San Francisco (SFO)	AMRST-DP VWV GSH	
St. Louis (STL)	OBRLN-DP VHP VANDALIA-STAR	
Sarasota/Bradenton (SRQ)	DJB DJB200 APE021 APE J186 J91 VXV J43 SZW	
Seattle/Tacoma (SEA)	CLAMP-STAR(RNAV only) ALPHE-DP ALPHE J70 PMM	
Seattle/ raddina (SEA)	or	
	(RNAV only) ALPHE-DP ALPHE J34 BAE	
South Bend (SBN)	AMRST-DP VWV GSH	
Tampa (TPA)	DJB DJB173 HERAK APE035 APE J186 J91 VXV	
	J43 SZW DARBS-STAR	
	Or	
	(GPS or DME/DME-IRU equipped) DJB DJB173 HERAK APE035 APE J186 J91 VXV J43 SZW	
	FOXXX (RNAV)-STAR	
Talada (TOL)		
Toledo (TOL)	AMRST-DP VWV	
Toronto (CYYZ)	FAILS V443 DOGGS YXU V098 YWT YWT-STAR	
West Chicago/Dupage (DPA)	AMRST-DP VWV EON JOT	
West Palm Beach (PBI)	(GPS or DME/DME-IRU equipped) DJB DJB173	
	HERAK APE035 APE J83 SPA J85 TAY WLACE or	
	(all others) DJB DJB173 HERAK APE035 APE J83	
	SPA TAY WLACE (RNAV)-STAR	
Wilmington (ILN)	DJB DJB173 HERAK APE035 APE	
COLUMBUS (CMH)		
Dallas/Fort Worth (DFW)	DQN CVG PXV J131 LIT BYP	

Effective
Times
(HTC)

Terminals	Route	(UTC)
Detroit/Wayne (DTW)	DJB DJB314 GEMNI GEMNI-STAR	(UTC)
Houston (HOU)	(GPS or DME/DME-IRU equipped) LIT J180 SWB	
,	ROKIT (RNAV)-STAR	
	or	
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR	
Houston (IAH)	(Turbojets-GPS or DME/DME-IRU equipped) LIT	
	J180 SWB TXMEX (RNAV)-STAR or	
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR	
La Guardia (LGA)	HLG ETG MIP-STAR	
Miami (MIA)	J83 SPA J85 TAY J75 HITTR PIE CYY-STAR	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) J83	
Newark (EWR)	SPA J85 TAY SSCOT (RNAV)-STAR DJB J29 J584 SLT FQM-STAR	
Washington (IAD)	APE APE100 AIR280 AIR J34 SHAAR ROYIL-STAR	
	or	
	(GPS or DME/DME-IRU equipped) APE APE100	
	AIR280 AIR MGW VERNI ESL SHNON	
	(RNAV)-STAR	
Washington (DCA)	APE APE100 AIR280 AIR J34 SHAAR	
	WZRRD-STARor	
	APE APE100 AIR280 AIR J34 SHAAR ELDEE	
DAYTON (DAY)	(RNAV)-STAR	
DAYTON (DAY) Atlanta (ATL)	(RNAV only) IIU BWG ERLIN (RNAV)-STAR	
Addita (ATE)	or	
	IIU BWG ROME-STAR	
Boca Raton (BCT)	(GPS or DME/DME-IRU equipped) V47 CVG HYK	
	VXV J99 IRQ J85 TAY PRRIE (RNAV)-STAR	1100-0300
Charlotte (CLT)	CVG FLM JOHNS (RNAV)-STAR	0700–2300
Dallas/Fort Worth (DFW) Fort Lauderdale (FLL)	J29 PXV J131 LIT BYPV47 CVG HYK VXV J43 ATL J89 HITTR PIE	
Tort Lauderdale (LL)	FORTL-STAR	
	or	
	(GPS or DME/DME-IRU equipped) V47 CVG HYK	
	VXV J43 ATL J89 OTK JINGL (RNAV)-STAR	
Fort Myers (FMY)	V47 CVG HYK VXV J43 SZW TYNEE (RNAV)-STAR.	
Fort Myers (RSW)	(GPS or DME/DME-IRU equipped) V47 CVG HYK	1100-0300
Houston (HOU)	VXV J43 SZW TYNEE (RNAV)-STAR GPS or DME/DME-IRU equipped) LIT J180 SWB	1100-0300
11003(011 (1100)	ROKIT (RNAV)-STAR	
	or	
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR	
Houston (IAH)	(Turbojets-GPS or DME/DME-IRU equipped) LIT	
	J180 SWB TXMEX (RNAV)-STAR or	
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR	
La Guardia (LGA)	J29 J146 ETG MIP-STAR	
Marco Island (MKY)	V47 CVG HYK VXV J43 SZW PIKKR (RNAV)-STAR	
Miami (MIA)	V47 CVG HYK VXV J43 ATL SZW J43 PIE	
	CYY-STAR	
	(Turbojets-GPS or DME/DME-IUR equipped) V47	
	CVG HYK VXV J43 ATL SZW SSCOT	
	(RNAV)-STAR	
Naples (APF)	V47 CVG HYK VXV J43 SZW PIKKR (RNAV)-STAR	
Orlando Executive (ORL)	V47 CVG HYK VXV J99 IRQ J85 AMG	
	LEESE-STAR	1100-0300
	or	

Towningle	Bouto	Effective Times
Terminals	Route (GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J99 IRQ J85 AMG SHEMP MTATA PIGLT	(UTC)
Orlando Intl (MCO)	(RNAV)-STARV47 CVG HYK VXV J99 IRQ J85 AMG	1100-0400
onando ma (moo)	LEESE-STARor	1100-0300
Sarasota/Bradenton (SRQ)	(GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J99 IRQ J85 AMG BUGGZ (RNAV)-STAR V47 CVG HYK VXV J43 SZW CLAMP-STAR	1100-0400
Tampa (TPA)	V47 CVG HYK VXV J43 SZW DARBS-STAR or (GPS or DME/DME-IRU equipped) V47 CVG HYK	
West Palm Beach (PBI)	VXV J43 SZW FOXXX (RNAV)-STAR(GPS or DME/DME-IRU equipped) V47 CVG HYK	
	VXV J99 IRQ J85 TAY WLACE	1100-0300
	V47 CVG HYK VXV J99 IRQ TAY WLACE (RNAV)-STAR	1100-0300
DETROIT METRO AREA (DTW, DET, YQG, PTK, YIP, ARB)		
Albany (ALB)	MOONN-DP JHW	
Allentown (ABE)	ERRTH-DP ETG RICHMOND-DP RID IIU BWG ROME-STAR or	
	(RNAV only) RICHMOND-DP RID IIU BWG ERLIN (RNAV)-STAR	
Atlantic City (ACY)	ERRTH-DP CXR EWC JST J152 HAR SIE	
Baltimore (BWI)	ACO AIR AIR111 KEMAN WESTMINSTER-STAR	
Bedford (BED)	MOONN-DP JHW J82 ALB	
Binghamton (BGM)	MOONN-DP JHW	
Birmingham (BHM)	RICHMOND-DP RID IIU	
Boston (BOS) Buffalo (BUF)	MOONN-DP JHW J82 ALB GARDNER-STAR (60-170 incl) MOONN-DP BROKK DKK	
Burlington (BTV)	MOONN-DP J29 JHW LAGGS	
Cancun (MMUN)	RICHMOND-DP RID IIU	
Charleston (CHS)	ROSEWOOD-DP ROD FLM HMV	
Charleston (CRW	ACO AIR HVQor	
Charletta (CLT)	(Turboprops/Props-at or below FL210) SCORR CHOOT APE HVQ	
Charlotte (CLT)	(RNAV)-STARJXN V116 LEROY GSH GSH-STAR	
Cincinnati (CVG)	FDY DEBAR-STAR	
(LNN) (LPR)	MAARS HIMEZ HIMEZ-STAR	
Columbus (CMH)	SCOOR CHOOT YOGGI GUNNE-STAR	
Dallas/Fort Worth (DFW)	FORT WAYNE-DP FWA RBS STL RZC FSM BONHAM-STAR	
Denver (DEN)	DUNKS J70 PMM J94 ONL J114 SNY LANDR-STAR	1100-0359
Elmira (ELM) Ft. Lauderdale (FLL)	MOONN-DP JHW ROSEWOOD-DP ROD FLM VXV CRG OMN GISSH-STAR	
	ROSEWOOD-DP ROD FLM VXV CRG OMN FISEL (RNAV)-STAR	
Fort Myers (FMY & RSW)	(Turbojets-GPS or DME/DME-IRU equipped) ROSEWOOD-DP ROD FLM VXV AMG SHFTY (RNAV)-STAR	
Greensboro (GSO)	AIR EKN ROA HENBY	
Greer (GSP)	ROSEWOOD-DP ROD FLM SOT V185 UNMAN	
Houston (HOU)	(GPS or DME/DME-IRU equipped) RID-DP RID PXV J131 LIT J180 SWB ROKIT (RNAV)-STAR	
	or	

Effective

Terminals	Route	Times (UTC)
	(Non-advanced NAV only) RID-DP RID PXV J131	
Houston (IAH)	LIT J180 SWB DAS-STAR CAVVS VWV ROD J29 PXV J131 LIT J180 CLUBS DAS-STAR	
	or (Turbojets-GPS or DME/DME-IRU equipped) RID-DP RID PXV J131 LIT J180 SWB TXMEX (RNAV)-STAR	
	(Non-advanced NAV only) RID-DP RID PXV J131	
Huntsville (HSV)	LIT J180 SWB DAS-STAR RICHMOND-DP RID IIU J39 BNA	
Indianapolis (IND)	ANNTS DXO217 FWAO71 FWA MIE V14	
Landon and Illa (IAM)	CLANG-STAR	
Jacksonville (JAX)	ROSEWOOD-DP ROD FLM VXV AMG ALMA-STAR	
Kennedy (JFK)	MOONN-DP JHW J70 LVZ LENDY-STAR	
La Guardia (LGA)	ERRTH-DP ETG ETG MILTON-STAR ROSEWOOD-DP ROD CVG CLEGG-STAR	
Lexington (LEX)	DUNKS J70 PMM OBK IOW J60 HEC J64	1100-0300
Los Angeles (LAX) Louisville (SDF)	ROSEWOOD-DP ROD CVG REDSTONE-STAR	1100-0300
Manchester (MHT)	MOONN-DP JHW J82 ALB EEN	
Memphis (MEM)	RICHMOND-DP CAVVS VWV ROD PXV	
Miami (MIA)	WLDER-STAR (RNAV only) ROSEWOOD-DP ROD FLM VXV CRG	
	OMN HILEY (RNAV)-STARor	
	ROSEWOOD-DP ROD FLM VXV CRG OMN	
Minneapolis (MSP)	ANNEY-STAR LAYNE DX0006 YQG341 J38 GRB EAU-STAR	
Montreal (CYUL)	TYCOB YQG098 J554 JHW J29 SYR ART ART040	
World Car (OTOL)	J594 MSS FRANX FRANX-STAR	1100-0300
Myrtle Beach (MYR)	ACO AIR EKN RDU	1100 0000
Nashville (BNA)	RICHMOND-DP RID IIU GUITR-STAR	
Newark (EWR)	ERRTH SLT FQM-STAR	
New Orleans (MSY)	RICHMOND-DP RID IIU J39 BNA MEI RYTHM-STAR	
Niagara Falls (IAG)	MOONN-DP BROKK DKK	
Norfolk (ORF)	ACO AIR MOL TERKS-STAR	
Norwood (OWD)	MOONN-DP JHW J82 ALB GDM	
Orlando Exec (ORL)	CAVVS VWV ROD J43 VXV J99 IRQ J85 AMG	
Olidido Exco (ONE)	LEESE-STAR	
	(GPS or DME/DME-IRU equipped)	
	ROSEWOOD-DP ROD J43 VXV J99 IRQ J85 AMG	
	SHEMP MTATA PIGLT (RNAV)-STAR	1100-0400
Orlando Intl (MCO)	ROSEWOOD-DP ROD FLM VXV AMG LEESE-STAR . or	
	(GPS or DME/DME-IRU equipped)	
	ROSEWOOD-DP ROD FLM VXV AMG BUGGZ	
	(RNAV)-STAR	1100-0400
Philadelphia (PHL)	ERRTH-DP CXR EWC JST BUNTS-STAR	
Pittsburgh (PIT)	ACO CUTTA-STAR	
Portland (PWM)	MOONN-DP JHW J82 ALB CAM CON CON061 NEETS	
Pottstown (PTW)	ERRTH-SID CXR EWC JST	
Providence (PVD)	MOONN-DP JHW J82 MEMMS J522 HNK TEDDY-STAR	
Raleigh/Durham (RDU)	ACO AIR EKN ROA SOUTH BOSTON-STAR	
Reading (RDG)	ERRTH-DP ETG	
Richmond (RIC)	ACO AIR MOL FAK	
Roanoke (ROA)	ACO AIR EKN ROA	
	or	
	(Turboprops/Props/at or below 230) SCORR	
Dechaster (DOC)	CHOOT APE ROA	
Rochester (ROC)	MOONN-DP BROKK DKK	

Effective Times (UTC)

	. .	Times
Terminals	Route	(UTC)
San Antonio (SAT)	FORT WAYNE-DP FWA RBS STL RZC MLC ACT MARCS-STAR	
	or	
	RICHMOND-DP RID RID234/40 PXV J131 TXK FZT TNV IDU MARCS-STAR	
San Francisco (SF0)	DUNKS J70 PMM J94 FMG ILA PYE	
Sarasota/Bradenton (SRQ)	ROSEWOOD-DP ROD FLM VXV AMG TAY LAL	
Shreveport (SHV)	RICHMOND-DP RID RID234/40 PXV	
St. Louis (STL)	ANNTS DX0217 FWA071 FWA RBS VLA-STAR	
Syracuse (SYR)	MOONN-DP JHW	
Tampa (TPA)	ROSEWOOD-DP ROD FLM VXV AMG TAY LZARD-STAR	
	or	
	(GPS or DME/DME-IRU equipped) ROD-DP ROD	
	FLM VXV AMG TAY DADES (RNAV)-STAR	
Teterboro (TEB)	MOONN-DP JHW J70 LVZ WILKES BARRE-STAR	
Toronto (CYYZ)	PISTN DX0020 V450 YWT V216	
Trenton (TTN)	ERRTH-DP CXR EWC JST BUNTS-STAR	
Washington Dulles (IAD)	J42 BKW ROYIL-STAR	
	or	
	J42 BKW SHNON (RNAV)-STAR	
	or	
	PXV IIU J8 HVQ ROYIL-STAR	
	PXV IIU J8 HVQ SHNON (RNAV)-STAR	
Washington Natl (DCA)	(all others) ACO AIR J34 BUCKO BUCKO-STAR	
Washington Wat (Dov)	or	
	(GPS or DME/DME-IRU equipped) ACO AIR J34	
	BUCKO ELDEE (RNAV)-STAR	
Westhampton Beach (FOK)	MOONN-DP JHW J70 STW LENDY	
West Palm Beach (PBI)	(GPS or DME/DME-IRU equipped)	
	ROSEWOOD-DP ROD FLM VXV CRG OMN	
	TUXXI-STAR	
	or	
	ROSEWOOD-DP ROD FLM VXV CRG OMN FRWAY	
	(RNAV)-STAR	
White Plains (HPN)	MOONN-DP JHW ITH DNY VALRE-STAR	
Wilkes-Barre (AVP)	MOONN-DP JHW	
Window Looks (RDL)	ERRTH-DP CXR EWC JST BUNTS-STAR	
Windsor Locks (BDL) Winston Salem (INT)	MOONN-DP JHW J82 WILET SWEDE-STAR AIR EKN ROA HENBY	
ELKHART (EKM)	AIR ERN ROATIENDT	
Cleveland Metro Area (CLE) (CGF) (BKL)		
(LNN) (LPR)	LFD CRL HIMEZ-STAR	
EVANSVILLE (EVV)		
Chicago O'Hare (ORD)	(/E/G/R/J/L/Q only) HEVAN MZZ ROYKO	
	(RNAV)-STAR	0000-2359
	or	
	(non-advanced RNAV only) HEVAN MZZ	
	MZZ344/33 OXI KNOX-STAR	0000-2359
FLINT (FNT)		
Atlanta (ATL)	(RNAV-only) VWV RID IIU BWG ERLIN	
	(RNAV)-STAR	
	VWV RID IIU BWG ROME-STAR	
Cincinnati (CVG)	FWA DEBAR-STAR	
FORT WAYNE (FWA)	SED/III OI/III	
Cincinnati (CVG)	FWA DEBAR-STAR	
GRAND RAPIDS (GRR)		
Atlanta (ATL)	IIU BWG ROME-STAR	
	or	
	(RNAV only) IIU BWG ERLIN (RNAV)-STAR	
Cincinnati (CVG)	FWA DEBAR-STAR	
Cleveland Metro (CLE) (CGF) (BKL) (LNN)	000	
(LPR)	GRR HIMEZ-STAR	

Effective Times

Terminals	Route	(UTC)
HAMILTON (CYHM) Detroit/Wayne Area (DET, YIP, PTK,		
CYQG) INDIANAPOLIS (IND)	YXU PICES-STAR	
Dallas/Fort Worth (DFW)	J24 STL RZC FSM BYP	
Houston (HOU)	(GPS or DME/DME-IRU equipped) LIT J180 SWB ROKIT (RNAV)-STAR	
	or (Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR	
Houston (IAH)	(Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR or	
	(Non-advanced NAV only) LIT J180 SWB DAS-STAR	
KALAMAZOO/BATTLE CREEK (AZO)	DAS-STAR	
Cincinnati (CVG)	FWA DEBAR-STAR	
LNN, LPR) LANSING (LAN)	LFD CRL HIMEZ-STAR	
Atlanta (ATL)	(RNAV only) VWV RID IIU BWG ERLIN	
	(RNAV)-STARor	
0	VWV RID IIU BWG ROME-STAR	
Cincinnati (CVG)	FWA DEBAR-STAR	
LNN, LPR) LONDON (CYXU) Detroit Metro Area (YIP, PTK, DET,	SVM HIMEZ-STAR	
CYQG)	YXU PICES-STAR	
MADISON (MSN) Cleveland Metro Area (CLE, CGF, BKL,		
LNN, LPR)	SQUIB GRR HIMEZ-STAR	
MILWAUKEE (MKE)		
Akron (CAK)	OBK SAMPL ADIME OTENS VWV MFD V8 DALTS	
Albany (ALB) Andrews AFB (ADW)	SQUIB MKG ECK YXU BUFOBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34	
Andrews Ar B (ADW)	SHAAR WZRRD-STAR	
Baltimore (BWI)	OBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34	
	AIR KEMAN WESTMINSTER-STAR	
Boca Raton	(GPS or DME/DME-IRU equipped) OBK J73 SZW	
Dodford (DED)	PRRIE (RNAV)-STAR	
Bedford (BED) Boston (BOS)	SQUIB MKG ECK YXU BUF ALB GDM V431 LOBBY SQUIB MKG ECK YXU BUF ALB GARDNER-STAR	
Buffalo (BUF)	SQUIB MKG ECK YXU	
Burlington (BTV)	SQUIB MKG ECK YXU BUF SYR J29 LAGGS	
Cleveland Metro Area (CLE)	SQUIB LAN SVM HIMEZ-STAR	
Detroit/Wayne (DTW)	BAE POLAR-STAR	
Detroit Metro Area (YIP)	SQUIB LAN SPRTN-STAR	
Flint (FNT) Fort Lauderdale (FLL)	SQUIB OBK J73 SZW JINGL (RNAV)-STAR	1100-0300
	or (GPS or DME/DME-IRU equipped) OBK J73 SZW	
	JINGL (RNAV)-STAR	1100-0300
Fort Myers (FMY)	OBK J73 SZW TYNEE (RNAV)-STAR	1100-0300
Harrisburg (MDT) Houston (HOU)	OBK SAMPL ADIME GERBS J146 CXR EWC HAR (GPS or DME/DME-IRU equipped) LIT J180 SWB ROKIT (RNAV)-STAR	
	or (Non-advanced NAV only) LIT J180 SWB DAS-STAR	
Houston (IAH)	(Turbojets-GPS or DME/DME-IRU equipped) LIT	
	J180 SWB TXMEX (RNAV)–STAR	
	(Non-advanced NAV only) LIT J180 SWB DAS-STAR	

Terminals	Route	Effective Times (UTC)
Hyannis (HYA)	SQUIB MKG ECK YXU BUF ENE LFA	(010)
Jackson (JXN)	SQUIB	
Kansas City (MCI)	DBQ BRAYMER-STAR	
Kansas City (MKC)	DBQ IRK BRAYMER-STAR	
Kennedy (JFK)	SQUIB MKG ECK J16 HANKK J522 HNK IGN KINGSTON-STAR	
La Guardia (LGA)	SQUIB MKG ECK YXU BUF GEE ROCKDALE-STAR .	
Lansing (LAN)	SQUIB	
Mansfield (MFD)	OBK SAMPL ADIME OTENS VWV	
Miami (MIA)	OBK J73 SZW J43 PIE CYY-STARor	1100-0300
	(Turbojets-GPS or DME/DME-IRU equipped) OBK J73 SZW SSCOT (RNAV)-STAR	1100-0300
Montreal (CYUL)	SQUIB MKG ECK YYZ J594 MSS	
Morristown (MMU)	SQUIB MKG ECK J16 HANKK IGN WEARD V489 COATE	
Nashville (BNA)	OBK J73 PXV CCT HEHAW-STAR	
Newark (EWR)	SQUIB MKG ECK J16 HANKK J522 HNK SHAFF-STAR	
Niagara Falls (IAG)	SQUIB MKG ECK YXU	
Orlando Executive (ORL)	OBK J84 DNV TTH BWG GQO ATL J89 OTK	
	LEESE-STARor	
	(GPS or DME/DME-IRU equipped) OBK J84 DNV	
	TTH BWG GQO ATL J89 OTK PIGLT	
	(RNAV)-STAR	1100-0400
Orlando Intl (MCO)	OBK J84 DNV TTH BWG GQO ATL J89 OTK	
	LEESE-STARor	1100-0300
	(GPS or DME/DME-IRU equipped) OBK J84 DNV TTH BWG GQO ATL J89 OTK PIGLT	
	(RNAV)-STAR	1100-0400
Philadelphia (PHL)	OBK SAMPL ADIME GERBS J146 CXR EWC JST BUNTS-STAR	
Pittsburgh (PIT)	OBK SAMPL ADIME OTENS ANEWA RIEKE DJB ACO CUTTA-STAR	
Portland (PWM)	SQUIB MKG ECK YXU BUF ALB CON PARSO	
Pottstown (PTW)	SQUIB ADALE J34 CRL CXR EWC JST	
Providence (PVD)	SQUIB MKG ECK J16 HANKK J522 HNK	
0(Paradoutou (0P0)	TEDDY-STAR	4400 0000
Sarasota/Bradenton (SRQ)	OBK J73 SZW CLAMP-STAR	1100-0300
Syracuse (SYR) Tampa (TPA)	SQUIB MKG ECK YXU BUF OBK J73 SZW DARBS-STAR	1100-0300
Tampa (11 A)	or (GPS or DME/DME–IRU equipped) OBK J73 SZW	1100-0300
	FOXXX (RNAV)—STAR	1100-0300
Teterboro (TEB)	SQUIB MKG ECK J16 HANKK IGN WEARD V489 COATE	
Toledo (TOL)	SQUIB PMM LFD	
Toronto (CYYZ)	SQUIB MKG ECK V216	
Washington Dulles (IAD)	OBK GIJ J146 J34 DJB J34 AIR MGW MGW121	
	VERNI ESL SHAAR ROYIL-STARor	
	OBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34	
	AIR MGW VERNI ESL SHNON (RNAV)-STAR	
Washington Natl (DCA)	OBK GIJ J146 J34 DJB J34 SHAAR WZRRD-STAR. or	
	OBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34	
	SHAAR ELDEE (RNAV)-STAR	
West Palm Beach (PBI)	(GPS or DME/DME-IRU equipped) OBK J73 SZW WLACE	
White Plains (HPN)	SQUIB MKG ECK J16 BUF ITH DNY VALRE-STAR	
Windsor Locks (BDL) Youngstown (YNG)	SQUIB MKG ECK J16 AUDIL SWEDE-STAR OBK SAMPL ADIME GERBS CXR	

Effective Times

Terminals	Route	(UTC)
MOLINE (MLI)		
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR)	ELX CRL HIMEZ-STAR	
Detroit/Wayne (DTW)	MKG POLAR-STAR	
Cincinnati (CVG)	(RNAV only) YOW J546 YSO MAULL KODIE CTW TIGRR (RNAV)-STAR	
	(all others) YOW J546 YSO YYZ JHW JHW194 MAULL SLT249 KODIE CTW081 CTW CINCE-STAR	
Detroit/Wayne (DET)	YOW J546	
Kennedy (JFK)	V282 J524 BUGSY J570 ALB IGN IGN-STAR	
La Guardia (LGA) OSHAWA (CYOO)	V282 J542 BUGSY J570 ALB PWL IGN V157	
Detroit Metro Area (DTW, DET, YQG, PTK,	YSN YHM YXU PICES-STAR	
YIP, ARB) OTTAWA (CYOW) Detroit Metro Area (DTW, DET, YQG, PTK,		
YIP ARB) PEORIA (PIA)	YOW J546 YSO YXU PICES-STAR	
Detroit/Wayne (DTW) ROCKFORD (RFD)	MKG POLAR-STAR	
Cleveland Metro Area (CLE) (CGF) (BKL)	51.V 051.111157 0715	
(LNN) (LPR)	ELX CRL HIMEZ-STAR	
(LNN) (LPR)	MBS V133 SVM HIMEZ-STAR	
SAINT THOMAS (CYQS) Detroit Metro Area (DTW, DET, YQG, PTK,		
YIP, ARB)SOUTH BEND (SBN)	AXXIS PICES-STAR	
Atlanta (ATL)	(RNAV only) IIU BWG ERLIN (RNAV)-STAR or	
Cincinnati (CVG)Cleveland Metro Area (CLE) (CGF) (BKL)	IIU BWG ROME-STARFWA DEBAR-STAR	
(LNN) (LPR) TOLEDO (TOL)	LFD CRL HIMEZ-STAR	
Atlanta (ATL) TORONTO (CYYZ)	VWV RID IIU BWG ROME-STAR	
Cincinnati (CVG)	(RNAV only) THORL JHW MAULL KODIE CTW TIGRR (RNAV)-STAR or	
	(all others) THORL JHW JHW194 MAULL SLT249 KODIE CTW081 CTW CINCE-STAR	
Detroit Metro Area (DTW, DET, YQG, PTK,		
YIP, ARB) La Guardia (LGA)	ANCOL V104 YXU PICES-STAR(above 250 kts) V252 GEE RKA-STAR	1100-0300
	(250 kts or less) V252 GEE V14 BEEPS J522	
San Francisco (SEO)	EXTOL RKA292 RKA NOBB-STAR	
San Francisco (SFO) WATERLOO (CYKF) Detroit Metro Area (DTW, DET, YQG, PTK,	GRB J106 GEP J70 ABR J32 FMG ILA PYE	
YIP, ARB)	YXU PICES-STAR	

PREFERRED IFR ROUTES SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

Effective

		Effective
Terminals	Route	Times (UTC)
Traffic originating east of Chicago Terminating De	nver:	
DJB	J60 IOW DSM J144 OBH J10 LBF	
	SAYGE-STAR	1300-0100
BAE	J16 MCW ONL J114 SNY LANDR-STAR	1200 0100
STL Traffic overflying Cleveland Center and south of SI	STL J110 GCK J154 RYLIE DANDD-STAR	1300-0100
HPN	(above 250 kts) SLT J190 CFB DNY280 DNY	
	VALRE-STAR	
	or	
	PSB J49 CFB220 CFB DNY280 DNY	
	VALRE-STAR	
	(250 kts or less) SLT J190 CFB DNY280	
	DNY NOBBI-STAR	
	or	
	PSB J49 CFB220 CFB DNY280 DNY	
EWR	NOBBI-STAR ROD J29 J584 FQM-STAR	1100-0300
ROD J29 J70 LVZ LENDY-STAR	1100-0300	1100 0000
	or	
BKW J42 GVE KORRY-STAR	1100-0300	
PHL	ROD J152 HAR V210 BUNTS	1100-0300
	OF BKW J42 GVE DPNT-STAR	1100-0300
PIT	APE CTW V443 WISKE	1100 0000
	or	
	HNN JPU V117 WISKE	
TEB/MMU/CDW/Satellites	(Non-Advanced Nav Aircraft only) ROD J29 JHW J70 LVZ LVZ-STAR	
Traffic overflying Badger VORTAC, BAE to Washing		
BAE	J34 AIR MGW MGW121 VERNI ESL ROYIL-STAR	
	or	
	(GPS or DME/DME-IRU equipped) J34 AIR	
	MGW VERNI ESL SHNON (RNAV)-STAR	
Traffic overflying Gipper VORTAC, GIJ to Washington	on Dulles IAD:	
GIJ	J146 WOOST J34 AIR MGW MGW121 VERNI	
	ESL ROYIL-STAR	
	or (GPS or DME/DME-IRU equipped) J146	
	WOOST J34 AIR MGW VERNI ESL SHNON	
	(RNAV)-STAR	
Traffic overflying Indianapolis Center area eastboo		to IFK:
ABE	ROD CXR J146	10 3111.
BDL	ROD J29 JHW J82 WILET RKA SWEDE-STAR.	
BWI	ROD J152 J162 MGW EMI-STAR	
CEF	ROD J29 JHW J82 ALB ROD J29 JHW J82 J522 HNK IGN V58 V91	
rkg	CCC	
HPN	(above 250 kts) ROD J29 JHW J82 WILET	
	DNY VALRE-STAR)	
	or	
	(250 kts or less) ROD J29 JHW J82 WILET	
ISP	DNY NOBBI-STAR(above 250 kts) ROD J152 J78 PSB J49 HNK	
	J68 V130 TOMES MAD V34 CREAM V16	
	ccc	
	or	
	(250 kts or less) ROD J152 J78 PSB J49	
TEB/MMU/CDW/LDJ	HNK DNY LOVES-STAR ROD J29 JHW J70 LVZ-STAR	
. 25,	320 3111 310 E1E-01AN	

Effective Times

Terminals Route (UTC) Traffic overflying Indianapolis Center area eastbound originating south and east of a line from DFW to JFK: BKW LDN LDN031 V377 HAR V162 DUMMR. ABE..... BKW J42 OTT SIE ACY BWI BKW J147 CSN OTT-STAR..... BKW J213 V143 V4 AML DCA/ADW BKW WZRRD-STAR..... or BKW ELDEE (RNAV)-STAR BKW J42 GVE ENO-STAR DOV..... HPN..... BKW J42 OOD J150 CYN BOUNO-STAR...... IΔD BKW ROYIL-STAR..... 1100-1830 and 2230-0300 BKW SHNON (RNAV)-STAR 1100-1830 and 2230-0300 GSO J14 CREWE J51 FAK COATT-STAR...... 1830-2230 ٥r GSO J14 CREWE J51 FAK BARIN (RNAV)-STAR..... 1830-2230 LFI BKW J42 MOL J24 HCM BKW J213 FINKS AML259 AML NSF..... PHL BKW J42 GVE DPNT-STAR..... TEB/MMU/CDW/LDJ (Advanced Nav Aircraft only) BKW J42 GVE JAIKE-STAR..... WRI BKW J42 OTT SIE-STAR Traffic overflying Indianapolis Center from Kansas City Center landing at Cleveland Metro: CLE (GPS or DME/DME-IRU equipped) STL J134 JUDDI CVG ABERZ-STAR Traffic overflying Indianapolis Center from Kansas City Center landing at Detroit/Wayne: DTW (GPS or DME/DME-IRU equipped) PXV VHP FWA MIZAR-STAR..... Traffic overflying Indianapolis (ZID) or Cleveland (ZOB) Centers landing in the Washington Metropolitan Area; MGW EMI-STAR 1100-0300 BWI or BKW J147 CSN OTT-STAR..... 1100-0300 DCA..... APE J30 BUCKO BUCKO-STAR 1100-0300 BKW FINKS-STAR..... 1100-0300 1100-0300 (GPS or DME/DME-IRU equipped) BKW ELDEE (RNAV)-STAR..... 1100-0300 APE J30 SHAAR WZRRD-STAR BKW WZRRD-STAR..... APE J30 SHAAR ELDEE BKW ELDEE (RNAV)-STAR APE AIR MGW MGW121 VERNI ESL IAD..... ROYIL-STAR BKW ROYIL-STAR..... HVO ROYIL-STAR or (GPS or DME/DME-IRU equipped) APE AIR MGW VERNI ESL SHNON (RNAV)-STAR BKW SHNON (RNAV)-STAR

HVQ SHNON (RNAV)-STAR.....

Effective Times (UTC)

Terminals	Route
Traffic overflying Indianapolis Center (ZID) to Chic	cago O'Hare (ORD)
ORD	(Non-Advanced Nav Aircraft only) ATL J89 IIU MZZ OXI KNOX-STAR or
	(Non-Advanced Nav Aircraft only) BNA IIU MZZ OXI KNOX-STAR or
	(Non–Advanced Nav Aircraft only) FLM J24 BIGXX MZZ OXI KNOX–STAR or
	(Non-Advanced Nav Aircraft only) IRQ J99 IIU MZZ OXI KNOX-STARor
	(Non-Advanced Nav Aircraft only, Washington/Baltimore Metro Area Only: BWI, DCA, IAD) ROD J149 FWA KNOX-STAR

HIGH ALTITUDE—SINGLE DIRECTION ROUTES

Airway	Segment Fixes	Direction Effective	Times (UTC)
J24/110	Indianapolis, IN to St. Louis, MO	West	1100-0300
J30	Joliet, IL to TRIXY Intn, VA	East	1100-0300
J34	Bellaire, OH to TRIXY Intn, VA	East	1100-0300
J149	Armel, VA to Rosewood, OH	West	1100-0300
J162	Bellaire, OH to Martinsburg, WV	East	1100-0300

Q-ROUTES REGULATORY

Q1, Q3, Q5, Q7, Q9 and Q11 are preferred single direction (Southbound) Q routes; flight planning Northbound not authorized.

Q routes are RNAV routes that require the use of GNSS or DME/DME/IRU RNAV, unless otherwise indicated. Please note that this section does not apply to Q routes in the Gulf of Mexico. Gulf of Mexico Q routes are explained in the Southeast and South Central A/FD volumes. Q routes listed in this A/FD volume have at least part of one of their leg segments within this volume's area of coverage.

GNSS and DME/DME/IRU RNAV operations are authorized along Q routes at FL 180 and above. GNSS and DME/DME/IRU RNAV MEAs will only be published if above FL 180.

DME facilities that have been assessed for RNAV operations are listed below. Q routes with no DME facilities listed are limited to GNSS RNAV operations only. Those routes will have an enroute chart note "GNSS REQUIRED".

Route	Segment	DME
Q1	ELMAA-ERAVE	BTG, OLM, HOM, HUH, UBG
-	ERAVE-EASON	BTG, OLM, HQM, HUH, LTJ, CVO, DSD, OED, UBG, ONP, EUG
	EASON-EBINY	CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT
	EBINY-ENVIE	CVO, OED, EUG, LMT, RBL, ENI, ONP, FJS
	ENVIE-ETCHY	OED, PYE, OAK, LIN, ECA, LMT, RBL, ENI, SAC, FJS
	ETCHY-POINT REYES	LIN, ECA, RBL, ENI, SAC, OAK
Q2	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-HOBOL	BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS
	HOBOL-ITUCO	TFD, GBN, BLH, PXR, TUS, CIE, SSO
	ITUCO-NEWMAN	EWM, TFD, PXR, CIE, SSO, TUS, TCS
Q3	FEPOT-FAMUK	OLM, TOU, HQM, CVO, BTG, DSD, LTJ, UBG, ONP, EUG
	FAMUK-FRFLY	BTG, DSD, OED, CVO, EUG, ONP, UBG, RBL, LMT
	FRFLY-FINER	OED, EUG, RBL, LMT, ENI, CVO, FJS
	FINER-FOWND	OED, PYE, ECA, LIN, OAK, ENI, RBL, LMT, SAC, FJS
04	FOWND-POINT REYES	LIN, ECA, PYE, RBL, SAC, ENI
Q4	BOILE-HEDVI HEDVI-SCOLE	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR EED, BLH, BZA, GBN, TRM, IPL, TFD
	SCOLE-SPTFR	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SPTFR-ZEBOL	EED, IPL, BZA, GBN, TFD, PXR, BLH
	ZEBOL-SKTTR	PXR, BLH, BZA, GBN, TFD, TUS, SSO, CIE, SVC, TCS
	SKTTR-EL PASO	EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME
Q5	HAROB-HISKU	OLM, ONP, CVO, EUG, HQM, UBG, BTG, LTJ, DSD, HUH
-	HISKU-HARPR	ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV
	HARPR-HOMEG	CVO, EUG, OED, RBL, LMT, ENI, FJS, LKV
	HOMEG-HUPTU	SAC, PYE, LIN, OAK, ECA, LMT, RBL, ENI, OED, FJS
	HUPTU-STIKM	OAK, ECA, PYE, LIN, SAC, ENI, RBL
Q7	JINMO-JOGEN	CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA
	JOGEN-JUNEJ	LTJ, IMB, UBG, EUG, CVO, RBL, LMT, FMG, DSD, LKV, OED, BTG
	JUNEJ–JAGWA	RBL, LMT, FMG, LIN, SAC, ECA, ENI, MOD, SWR, OAK, LKV, CZQ, AVE, SNS
	JAGWA-AVENAL	OAK, MOD, ECA, EHF, PRB, AVE, SNS, CZQ
Q9	SUMMA-SMIGE	OLM, UBG, SEA, YKM, BTG, ONP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED,
	OMICE CUNDE	EPH, MWH
	SMIGE-SUNBE	IMB, UBG, EUG, IMB, RBL, LMT, FMG, SAC, OED, CVO, LKV, DSD, BTG
	SUNBE-REBRG	RBL, LMT, FMG, SAC, ECA, MVA, CZQ, OAK, EHF, PMD, LKV, LIN, MOD, AVE, OED, SWR
	REBRG-DERBB	CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA
Q11	PAAGE-PAWLI	EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV,
		OED, SEA
	PAWLI-PITVE	EUG, FMG, SAC, IMB, LKV, OED, DSD, RBL, LMT, CVO, REO
	PITVE-PUSHH	FMG, SAC, LIN, SWR, MOD, OAL, RBL, LKV, LMT, MVA, CZQ
	PUSHH-LOS ANGELES	SAC, ECA, FMG, LIN, OAL, MOD, EHF, LAX, PMD, PDZ, HEC, OCN, CZQ, AVE, RZS
Q13	All segments	None; GNSS required
Q15	All segments	None; GNSS required
Q19	PLESS-NASHVILLE	ENL, GQO, PXV, BNA, IIU, FAM, BWG, CSX
Q20	CORONA-HONDS	CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME
	HONDS-UNNOS	CNX, INK, CME, TXO, TCC
	UNNOS-FUSCO	FST, ACH, INK, CME, SJT, TXO, TCC
001	FUSCO-JUNCTION	ABI, CWK, CSI, INK, LZZ, JCT, SJT, STV, FST
Q21	JONEZ-RAZORBACK	BYP, EOS, TUL, TXK, ADM, RZC, OKM
Q22	GUSTI-OYSTY OYSTY-ACMES	AEX, DAS, MCB, LLA, BTR, LCH, HRV, LFT, LEV RQR, GCV, MCB, BTR, PCU, GPT, HRV, LEV, SJI
	ACMES-CATLN	SJI, MGM, MCB, BFM, GPT, GCV, HRV, CEW, MVC, PCU, MEI
Q23	FORT SMITH-RAZORBACK	
420	TOTAL SWITTI-MAZONDACK	01(iii, 1120, 200, 102

378 Q-ROUTES

Route	Segment	DME
Q24	LAKE CHARLES-BATON	AEX, DAS, LCH, MCB, LFT, BTR
	ROUGE BATON ROUGE-IRUBE	AEX, LEV, MCB, LCH, RQR, HRV, BTR, GCV, MCB, PCU, SJI, LBY
	IRUBE-PAYTN	GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI
Q25	MEEOW-WALNUT RIDGE	ELD, MEM, LIT, FAM, RZC
	WALNUT RIDGE-WLSUN	MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH
	WLSUN-POCKET CITY	BWG, PXV, ENL, BNA, TTH
Q26	WALNUT RIDGE-DEVAC	LIT, JKS,GQO, MEM, BNA, FAM, ARG, DYR, VUZ, RMG
Q27 Q28	FORT SMITH-ZALDA GRAZN-PYRMD	OKM, SGF, RZC, EOS, TUL EIC, LIT, ELD, OKM, TXK
¥	PYRMD-HAKAT	ARG, LIT, FAM, ELD, SGF, RZC, MEM, TXK
	HAKAT-ESTEE	ARG, LIT, FAM, SGF, MEM
	ESTEE-POCKET CITY	ARG, CSX, FAM, PXV, ENL, MEM, STL, BWG, TTH, BNA
Q29	HARES-MEMPHIS	MEM, ARG, LIT, JAN, ELD, SQS
	MEMPHIS-SIDAE SIDAE-POCKET CITY	MEM, PXV, BNA, BWG, ARG, ENL PXV, TTH, BWG, ENL
030	SIDON-VULCAN	GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG
Q31	DHART-JODOX	SQS, LIT, TXK
	JODOX-MARVELL	SQS, LIT, ELD, MEM, ARG
	MARVELL-TIIDE	ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH
Q32	TIIDE-POCKET CITY	BWG, PXV, ENL, TTH
Ų32	EL DORADO-GAGLE GAGLE-CRAMM	AEX, JAN, MEM, SQS, SWB, ELD, LIT, TXK JAN, SQS, MEM, ARG, VUZ, BNA, LIT
	CRAMM-NASHVILLE	BWG, MEM, VUZ, BNA, GQO
	NASHVILLE-SWAPP	BWG, IIU, PXV, VXV, BNA, GQO
Q33	DHART-LITTLE ROCK	AEX, ELD, LIT, TXK, SWB, ARG, MEM, SQS
024	LITTLE ROCK-PROWL	ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL
Q34	TEXARKANA-MATIE MATIE-MEMPHIS	LIT, SWB, TXK, BYP, EIC, ELD, SQS LIT, ARG, MEM, ELD, SQS
	MEMPHIS-SWAPP	BWG, ARG, MEM, MKL, SQS,PXV, BNA, GQO, IIU, VXV
Q35	KIMBERLY-NEERO	LTJ, PDT, DSD, IMB, LKV, BOI, REO, BAM, SDO
	NEERO-WINEN	BQU, SDO, BAM, REO, BVL, ILC, DTA, ELY, CDC, MLF, BCE
	WINEN-CORKR	CDC, BCE, BLD, ILC, MLF, TBC, PGS, INW, DRK
036	CORKR-DRAKE RAZORBACK-TWITS	TBC, BCE, BLD, DRK, PGS, FLG, GCN, INW, TFD RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT
Q 50	TWITS-DEPEC	MEM, GQO, BNA, BWG, FAM, ARG, PXV, IIU
	DEPEC-NASHVILLE	GQO, BWG, BNA, PXV, IIU
	NASHVILLE-SWAPP	VXV, BWG, BNA, GQO, PXV, IIU
Q38	ROKIT-INCIN	DAS, LCH, SWB, IAH, LFK, HUB, AEX
	INCIN-LAREY LAREY-BESOM	JAN, MCB, SWB, AEX JAN, JYU, MEI, SQS, VUZ
040	ALEXANDRIA-DOOMS	AEX, SWB, LCH, JAN, HEZ, MCB
	DOOMS-WINAP	JAN, SQS, MEI, MCB
	WINAP-MISLE	MEI, VUZ, JYU
Q42	KIRKSVILLE-STRUK	CID, IOW, UIN, LMN, IRK, BDF, STL, DEC, ENL, CSX
	STRUK-DANVILLE	ENL, IOW, UIN, BDF, DEC, STL, CSX, SPI, TTH, BVT, JOT, VHP, OXI, ENL, OKK,
	DANVILLE-MUNCIE	OBK, GIJ, FWA, GSH, IRK GIJ, SPI, BDF, OBK, OKK, VHP, BVT, DEC, GSH, FWA, JOT, TTH, OXI, ROD, FLM
	MUNCIE-HIDON	FLM, VHP, GSH, TTH, GIJ, OKK, FWA, ROD, OXI, CRL, GSH, APE, DJB, DXO, HNN,
		AIR, HVQ, CXR, EWC
	HIDON-BUBAA	AIR, APE, HNN, CXR, HVQ, EWC, DJB
	BUBAA-PSYKO	AIR, APE, DJB, CXR, HNN, EWC, SLT, CSN, JHW, ETG, PSB
	PSYKO-BRNAN BRNAN-MAALS	PSB, JHW, EWC, AIR, ETG, CSN, EMI, SLT EMI, SLT, CSN, EWC, PSB, ETG, SAX, RBV, HNK, HUO, SIE
	MAALS-SUZIE	ETG, EMI, CSN, HUO, SIE, JFK, PSB, SLT, HNK
	SUZIE-EAST TEXAS	JFK, EMI, PSB, SLT, HNK, SIE, RBV, SAX, HUO, CYN
	EAST TEXAS-ELIOT	HUO, RBV, EMI, CYN, SAX, JFK, PSB, HNK
Q104	DEFUN-HEVVN	PIE, PZD, CRG, SZW, TAY, JYU, CEW, MGM, OTK, CRG
	HEVVN-PLYER PLYER-SWABE	PIE, ORL, OMN, SRQ, TAY, LAL, CRG, SZW, PZD PIE, ORL, OMN, SRQ, TAY
	SWABE-ST PETERSBURG	LAL, ORL, OMN, SRQ, PHK, PIE
	ST PETERSBURG-	PHK, PBI, SRQ, PIE, VRB, ORL, FLL, LAL, OMN
	CYPRESS	

Route	Segment	DME
Q106	SMELZ-BULZI	LAL, ORL, OMN, PHK, PIE, CRG, VRB, TAY, OTK, PZD, AMG, SZW
	BULZI-DRABK	AMG, PZD, TAY, CRG, SZW, MGM, OTK, JYU, CEW, SJI
	DRABK-GADAY	MGM, PZD, OTK, JYU, SZW, CEW, SJI
Q108	GADAY-CLAWZ	MGM, SJI, CEW, JYU, PZD, OTK, MCN, SZW, LGC, TAY, AMG
Q110	THNDR-JAYMC	SRQ, VRB, PHK, PIE, LAL, VKZ, ORL, PBI
	JAYMC-RVERO	VKZ, VRB, PHK, PIE, LAL, SRQ, ORL, OMN, PBI, DHP
	RVERO-KPASA	OMN, PIE, PBI, SRQ, ORL, LAL
	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-GULFR	OMN, AMG, CRG, SZW, PIE, TAY, PZD, OTK
	GULFR-FEONA	TAY, MCN, PZD, CRG, OTK, SZW, AMG, MCN, ATL, MGM
Q112	DEFUN-HEVVN	PIE, OTK, CRG, OMN, LAL, SZW, SRQ, ORL, VRB
	HEVVN-INPIN	JYU, PZD, CEW, SZW, MGM, OTK, TAY, AMG, PIE, CRG
Q116	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-GULFR	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK
	GULFR-CEEYA	MCN, AMG, PZD, OTK, SZW, TAY
Q118	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-LENIE	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK, MCN
Q501	VIXIS-GOPHER	ECK, FNT, APN, SSM, GRR, MBL, SAW, BAE, MNM, DLL, AUW, ODI, STE, FGT, EAU,
		DLH, GEP, BRD, MCW, MSP, ASP, TVC, GRB, RWF
	GOPHER-SOBME	FGT, BRD, MCW, GEP, ABR, FAR, DLH, ODI, RWF, FSD
Q502	KENPA-GOPHER	SSM, FNT, ECK, APN, SAW, GRB, BAE, DLL, AUW, ODI, FGT, DLH, EAU, MCW,
		MSP, MNM, ASP, TVC, GEP, RWF, BRD
	GOPHER-SOBME	FGT, DLH, ODI, MCW, ABR, FAR, MSP, GEP, RWF, FSD, BRD
Q504	NOTAP-CESNA	SSM, ECK, APN, GLR, PLN, ISQ, MNM, DLL, RHI, DLH, GEP, FGT, ODI, ASP, TVC,
		SAW, GRB, BRD
	CESNA-HEMDI	ODI, GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, DLL, BRD
Q505	OMAGA-RIMBE	SSM, TVC, ASP, SAW, GRB
	RIMBE-CESNA	SSM, RHI, DLL, DLH, GEP, FGT, TVC, SAW, GRB, BRD, ODI
	CESNA-HEMDI	GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, BRD, ODI, GRB

RNAV Routing Pitch and Catch Points

The purpose of this section of the Special High Altitude Routes is to present user routing options for flight within the initial HAR Phase I expansion airspace. Users are able to fly user-preferred routes, referred to as non-restrictive routing (NRR), between specific fixes described by pitch (entry into) and catch (exit out of) fixes in the HAR airspace. Pitch points indicate an end of departure procedures, preferred IFR routings, or other established routing programs where a flight can begin a segment of NRR. The catch point indicates where a flight ends a segment of NRR and joins published arrival procedures, preferred IFR routing, or other established routing programs.

The HAR Phase I expansion airspace is defined as that airspace at and above FL 350 in fourteen of the western and southern Air Route Traffic Control Centers (ARTCCs). The airspace includes Minneapolis (ZMP), Chicago (ZAU), Kansas City (ZKC), Denver (ZDV), Salt Lake City (ZLC), Oakland (ZOA), Seattle Centers (ZSE), Los Angeles (ZLA), Albuquerque (ZAB), Fort Worth (ZFW), Memphis (ZME), and Houston (ZHU). Jacksonville (ZJX) and Miami (ZMA) are included for east-west routes only.

To develop a flight plan, select pitch and catch points based upon your desired route across the Phase I airspace. Filing requirements to pitch points, and from catch points, remain unchanged from current procedures. For the portion of the route between the pitch and catch points, non-restrictive routing is permitted.

Where pitch points for a specific airport are not identified, aircraft should file an appropriate departure procedure (DP), or any other user preferred routing prior to the NRR portion of their routing. Where catch points for a specific airport are not identified aircraft should file, after the NRR portion of their routing, an appropriate arrival procedure or other user preferred routing to their destination.

Additionally, information concerning the location and schedule of Special Use Airspace (SUA) and Air Traffic Control Assigned Airspace (ATCAA) can be found on the Web Site: http://sua.faa.gov/sua/Welcome.do. ATCAA refers to airspace in the high altitude structure supporting military and other special operations. Users are encouraged to file around these areas when they are scheduled to be active, thereby avoiding unplanned reroutes around them.

In conjunction with the HAR program RNAV routes have been established to provide for a systematic flow of air traffic in specific portions of the enroute flight environment. The designator for these RNAV routes begin with the letter Q, for example, Q-501. Where those routes aid in the efficient orderly management of air traffic they will be published as preferred IFR routes.

High Altitude Redesign (HAR) Phase One Expansion Airspace

HAR expansion airspace may pitch

Except as noted, flights entering at the airspace boundary, at the

west longitude to the ZHU southern boundary. 90 degrees west longitude, the 90 degrees south to the ZHU boundary. Then west to except between PMM and GSH, then boundary to the ZME/ZID boundary west longitude from the ZMP/ZAU following the ZME east boundary Vertical Pitch Line: 86 degrees No westbound traffic between PMM and GSH. ZNZ 787 ZDC ZNZ ZIMA ZOB E ZJX IN DEW ZID SSH SWT Sovido Boydo W 98 W 06 GEP CESNA vertical pitch line, or at the fixes ZME S. listed on the following page. ZKC ZHD ZFW ZMP VOZ ZAB ZLC ZLA ZSE ZOA

EC, 17 DEC 2009 to 11 FEB 2010

HAR Special High Altitude Pitch (entry) Points for Nonrestrictive Routing for Airports Located Outside HAR Phase I Expansion Airspace

Westbound traffic originating outside of HAR airspace entering ZMP, ZAU, ZKC and ZME can begin non-restrictive routing over any of the following pitch points (listed from north to south):

DLH, CESNA, GEP, BAE, MKG, GRR, PMM, GSH, CADIZ, FWA, VHP, FLM, IIU, PXV, SGF, RZC, BNA, SALMS, VUZ, BOYDD,

Traffic originating outside of HAR airspace may also begin Nonrestrictive Routing upon crossing the pitch line depicted on the associated graphic.

HAR Special High Altitude Pitch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists pitch points for airports within the HAR Phase I expansion airspace.

Albuquerque ABO, GUP, HANOS or ZUN

Austin ABI, FUZ, JCT, MOP, NAVYS, SJT or TNV

Boca Raton, FL TBIRD KPASA 0118 LENIE

TBIRD KPASA Q116 CEEYA

TBIRD KPASA 0110 FEONA

TBIRD SMELZ 0106 BULZI

TBIRD SMELZ Q106 GADAY

GMN. MARKS Burbank includes

Santa Monica DAG LAS and Van Nuys

HEC EED PMD BLH

IOW, PLL275065, MZV or BAE Chicago Terminal Area

Dallas/Fort Worth Terminal Area ABI, LBB, GTH, CDS, MRMAC, IRW, TUL, MLC, TXK

ELD, SWB

Aircraft destined the Chicago terminal area

Except MDW

EAKER MIDEE BDF BRADFORD-STAR

MLC J105 SGF BDF BRADFORD-STAR

Denver Terminal Area PUB, DVC, DBL, RLG, EKR, LAR, MBW, CYS, BFF, HANKI, NATTI, ASHBY, BELKE,

CABET, WEEDS, OR BINKE

Fort Lauderdale (or) THNDR KPASA Q118 LENIE

Fort Lauderdale Executive

THNDR KPASA Q116 CEEYA

THNDR KPASA Q110 FEONA

THNDR SMELZ 0106 GADAY

THNDR SMELZ Q106 BULZI

Houston Bush LIT, EMG, MLC, JCT

or

Aircraft destined Atlanta Terminal Area LCH Q24 PAYTN HONIE-RNAV STAR

Aircraft joining J37 to the northeast, BPT GUSTI Q22 CATLN

Aircraft joining J42 to the northeast, ELD Q32 J42

Houston Hobby LIT, EMG, MLC, JCT,

or

Aircraft joining J42 to the northeast, ELD Q32 J42

Jacksonville, FL TAY

Kansas City Terminal Area TIFTO, CATTS or KENTN

Los Angeles, includes GMN, RZS Ontario or

DAG LAS or TRM EED

or TRM PKE

Las Vegas DOBNE, MOSBI, NICLE, TRALR or ZELOT

Long Beach includes GMN SNS, EHF, LANDO

Orange County

TRM PKE or

TRM EED

Memphis BNA, HAAWK, SALMS or SQS
Miami Terminal Area WINCO KPASA Q118 LENIE

or

WINCO KPASA Q116 CEEYA

WINCO KPASA Q110 FEONA

or WINCO SMELZ Q106 GADAY

0.

WINCO SMELZ 0106 BULZI

Milwaukee GREAS

Minneapolis Terminal Area* ONL, ABR, FAR, OBH, OVR, FOD

New Orleans Terminal Area AEX, MEI, SQS, KAPLN

Orlando Terminal Area WEBBS BRUTS Q118 LENIE or

WEBBS GULFR Q116 CEEYA

or

WEBBS BULZI Q106 GADAY

or

WEBBS FEONA

or

WEBBS BULZI

Palm Beach, FL TBIRD KPASA Q118 LENIE

10

TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA

or

TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY

Palm Springs TRM JOTNU BLD

or

TRM EED or TRM PKE

Phoenix CHILY, CIE, CULTS, RSK, DOVEE, GCN, MESSI, SJN, DRYHT or MOHAK

Portland, OR PDT, TIMEE

Salt Lake City HVE, DTA, MLF, BCE, OAL, MTU, BVL, OCS, TWF, DBS, BPI

TCH J56 CHE TCH J173 EKR

Saint Louis VIH, MAP, MYERZ, MCM

HLV MCI

FUZ, SJT, MQP, ABI San Antonio Terminal Area

Aircraft North of LFK, LFK Aircraft South of HUB, ELA

Aircraft South of LFK and North of HUB LCH

San Diego TRM FFD

384

TRM PKE

TRM JOTNU BLD

San Francisco Bay Area GALLI, INSLO, HAROL JSICA Oakland GALLI, INSLO, HAROL JSICA

San Jose GALLI or INSLO

Seattle BLUIT

Southwest Florida Airports JOCKS KPASA Q118 LENIE

(RSW/FMY)

JOCKS KPASA 0116 CEEYA

JOCKS KPASA Q110 FEONA

JOCKS SMELZ Q106 GADAY

JOCKS SMELZ Q106 BULZI

Tampa Terminal Area FEONA, BULZI

or BRUTS 0118 LENIE

GULFR Q116 CEEYA

or BULZI Q106 GADAY

Catch Points for Airports Located Outside HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to specific destinations which are outside the HAR Phase I airspace.

Atlanta Terminal Area

Aircraft through ZME airspace from ZKC airspace east of FAM, Pless Q19 BNA

Aircraft through ZME airspace from ZKC airspace west of FAM, ARG Q26 DEVAC

MEM

Aircraft through ZME airspace from ZID airspace west of a line from VHP to

Aircraft through ZME airspace from ZID airspace east of a line from VHP to

BWG, BWG

Aircraft through ZME airspace from ZFW airspace, MEM

MEI HONIE (RNAV)-STAR

PATYN HONIE (RNAV)-STAR

^{*}MSP area departures with destinations east of 93 degrees west longitude via preferred IFR routing.

Baltimore–Washington* GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA or VUZ

Boston* GEP, CRL, ECK, IIU, BNA or VUZ

Buffalo* GEP, CRL

Hartford Bradley* GEP, CRL

Canton-Akron* GIJ, VHP, GEP

Charlotte BNA, VUZ

Cincinnati Terminal Area BNA, PXV

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Aircraft north of SLC, JOT

or

Aircraft over or south of SLC, ENL

or

SLC or SFO departures, ENL, JOT

Cleveland Terminal Area* OBK

Detroit Terminal Area BAE MKG POLAR-STAR

or

VHP FWA MIZAR-STAR

Detroit Young VHP FWA

or

LAN SPRTN-STAR

Indianapolis Terminal Area BIB, SPI, JOT
Louisville ENL. MEM

Newark* GEP, VHP, FLM, IIU, BNA, VUZ

or

IOW GIJ J554 CRL J584 SLT FQM

New York Kennedy* GEP, VHP, FLM, IIU, BNA, VUZ

or

DBQ J94 PMM J70 LVZ LENDY-STAR

New York LaGuardia* GJJ, GEP, VHP, BAE, FLM, IIU, BNA, VUZ
Philadelphia Terminal Area* GJJ, GEP, VHP, BAE, WHETT, BNA, VUZ

Pittsburgh Terminal Area* VHP, GIJ, BAE, GEP
Pontiac LFD, LAN, VHP, FWA, GEP

Providence JHW, HEMDI, CESNA, GEP, GRB, TVC, ASP, VHP, IIU, BNA, VUZ

 Raleigh-Durham
 FLM, IIU, BNA, VUZ

 Toronto Terminal Area
 ECK, SVM, SSM, GEP

 Teterboro*
 GEP, VHP, CRL, BNA, VUZ

Washington Dulles/National* GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA, VUZ

White Plains* GEP, VHP, CRL, FLM, IIU, BNA, VUZ

Willow Run* LAN, LFD, VHP, FWA, GEP

*Eastbound aircraft over flying ZMP center airspace entering Toronto center airspace, file direct SSM or via J63, J522, Q505, Q504, Q502, Q501

or

Entering ZAU or ZOB airspace from north of DPR J16 MCW, GEP

or

Entering ZAU or ZOB airspace from or south of DPR J16 MCW, CRL.

386

Catch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to airports which are below HAR Phase I airspace.

Albuquerque Terminal Area CURLY CURLY-STAR

or

ESPAN FRIHO-STAR

LAVAN LAVAN-STAR

FTI FRIHO-STAR

or

MIERA MIERA-STAR

Austin Terminal Area Aircraft west of a north-south line at LFK. BLEWE

Aircraft east of a north-south line at LFK,IDU

or LLO

Boca Raton, FL CEW DEFUN Q112 INPIN SHDAY (RNAV)-STAR

Aircraft through ZHU remain south of ZME and ZTL airspace

DEFUN 0112 INPIN SHDAY (RNAV)-STAR

Aircraft through ZHU remain south of ZME and ZTL airspace

SZW INPIN SHDAY (RNAV)-STAR

Chicago Midway CVA MOTIF-STAR

PIA MOTIF-STAR

DBQ CVA MOTIF-STAR

LMN MOTIF-STAR

Chicago O'Hare Terminal Area GEP DLL MSN JVL JANESVILLE-STAR

TVC PULLMAN-STAR

FOD DBQ JVL JANESVILLE-STAR

MCW JANESVILLE-STAR

GCK IRK BRADFORD-STAR

Dallas/Fort Worth Terminal Area IRW, LOSZY, FSM, LIT, SQS, MLU, AEX, JUMBO, TQA, TURKI, HEATR

Aircraft through ZME airspace from north and west of PXV, RZC, Q23 FSM

Aircraft through ZME airspace from east of PXV, PXV Q25 MEEOW

Aircraft through ZME airspace from J6 down to, but not including J52, LIT, SQS

Aircraft through ZME airspace from J52 and south of J52, SQS

Denver Terminal Area OATHE DANDD-STAR

HGO QUAIL-STAR

LOPEC-STAR

ALS LARKS-STAR

HBU POWDR-STAR

EKR TOMSN-STAR

CHE TOMSN-STAR

BFF LANDR-STAR

LBF SAYGE-STAR

HCT SAYGE-STAR

RSK LARKS-STAR

LAA QUAIL-STAR

GCK J154 RYLIE DANDD-STAR

OCS J154 ALPOE RAMMS-STAR

YANKI J114 SNY LANDR-STAR

Aircraft filed BIL or east, MBW RAMMS-STAR

Ft Lauderdale or CEW DEFUN Q104 PIE SWAGS (RNAV)-STAR

Ft Lauderdale Executive Aircraft through ZHU airspace remain south ZME and ZTL

airspace

SZW HEVVN 0104 PIE SWAGS (RNAV)-STAR

Houston Bush CRP. CVE. LLO. LUKIY. SAT

Aircraft south and east of LLA, LLA

MISLE Q40 AEX

Aircraft north and east of SJI, SJI

Aircraft east of PXV. PXV 031 DHART SWB

Aircraft north and west of PXV, PROWL Q33 DHART SWB

Houston Hobby CRP, ELLVR, SAT, SWB

Aircraft south and east of GIRLY, GIRLY

Aircraft north and east of SJI, SJI

BESOM Q38 ROKIT ROKIT-STAR

Aircraft east of PXV, PXV Q29 HARES SWB

Aircraft north and west of PXV, PROWL Q33 DHART SWB

Jacksonville **GADAY ZOOSS TAY**

Aircraft through ZHU airspace remain south of ZME and ZTL

ZOOSS TAY

388 HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING

John Wavne-Orange County HEC. PGS. BLD

Aircraft south of TBC from ZAB airspace, HIPPI

Kansas City Terminal Area LMN BRAYMER-STAR

PWE ROBINSON-STAR

EMP JHAWK-STAR

Las Vegas DILCO, LIDAT, IGM

Aircraft over PGA or north of PGA KSINO

Aircraft south of PGA PGS LYNSY

Los Angeles Terminal Area Aircraft North of TBC, HEC, PGS

Aircraft South of TBC from ZAB airspace, HIPPI.

MESSI

CEW DEFUN Q104 CYY DEEDS (RNAV)-STAR Miami Terminal Area

Aircraft through ZHU airspace remain south ZME and ZTL airspace

SZW HEVVN Q104 CYY DEEDS (RNAV)-STAR

Minneapolis Terminal Area Aircraft from north, west, south,

FAR GOPHER-STAR

or

RWF SKETR-STAR or ALO KASPR-STAR

BRD GOPHER-STAR

BAE EAU CLAIRE-STAR

or

FOD TWOLF-STAR

Memphis Terminal Area ARG, BWG, FSM, PXV, LIT, RZC, SQS, VUZ, BNA, GQO, ELD

Naples, FL CEW DEFUN 0104 PLYER PIKKR (RNAV)-STAR

Aircraft through ZHU AIRSPACE remain south of ZME and ZTL

airspace

SZW HEVVN 0104 PLYER PIKKR (RNAV)-STAR

Nashville CCT, GHM, GUITR, TINGS, VOLLS New Orleans Terminal Area BLUEZ, GPT, LCH, MCB, TBD, FATSO

Oakland II A

or

KATTS PAMMY

Aircraft over or south of a line ILC J16 DVC

REANA KATTS PAMMY

Aircraft from north of ILC, JOPER PAMMY

KATTS PAMMY

Aircraft over or south of ILC, REANA KATTS PAMMY

Orlando Terminal Area GADAY Q108 CLAWZ LEESE-STAR

Aircraft through ZHU airspace remain south of ZME/ZTL

airspace

OTK LEESE-STAR

Palm Beach, FL CEW DEFUN 0112 INPIN GULLO (RNAV)-STAR

Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

SZW INPIN GULLO (RNAV)-STAR

Phoenix CORKR DRK

Aircraft from ZDV airspace,

GUP

Aircraft from ZAB airspace,

ZUN, MOHAK, SSO

VYLLA TUS

Phoenix Satellites FLG, SSO, MOHAK

VYLLA, TUS

Portland, OR Terminal Area ARNIT BONVL-STAR

LARNO BONVL-STAR

MOXEE MOXEE-STAR

St. Louis Terminal Area SGF TRAKE-STAR

BUM TRAKE-STAR ANX TRAKE-STAR

LMN IRK RIVRS-STAR

RBS VANDALIA-STAR

Salt Lake City Terminal Area

JNC J12 HELPR SPANE-STAR

EKR MTU SPANE-STAR or

BCE DTA-TCH or MLF DTA-TCH

BVL BONNEVILLE-STAR

or

BYI BEARR-STAR

or

PIH BEARR-STAR

DBS BRIGHAM CITY-STAR

JAC BRIGHAM CITY-STAR BPI BRIGHAM CITY-STAR

OCS BRIGHAM CITY-STAR

San Diego Terminal Area EED, LAX, GBN

Santa Ana HEC, PGS, BLD, HIPPI

San Antonio Terminal Area IDU, CSI, JCT, LLO, CRP, LRD

West of a north-south line at LFK, BLEWE

East of a north-south line at LFK, IDU

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING 390

San Francisco FMG GOLDEN GATE-STAR

MVA MODESTO-STAR

ENI GOLDEN GATE-STAR

OAL MODESTO-STAR

South of a line ILC to DVC,

REANA KATTS OAL MODESTO-STAR

San Jose FMG HYP EL NIDO-STAR

OAL HYP EL NIDO-STAR

ENI GOLDEN GATE-STAR

South of a line ILC to DVC,

REANA KATTS KICHI CANDA EL NIDO-STAR

Seattle Terminal Area Aircraft from northeast, southeast, south,

TEMPL GLASR-STAR

SUNED CHINS-STAR

BTG OLMYPIA-STAR

Southwest Florida Airports CEW DEFUN Q104 SWABE JOSFF-STAR

RSW and FMY Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

SZW HEVVN Q104 SWABE JOSFF-STAR

Tampa Terminal Area CEW DEFUN Q104 HEVVN DARBS-STAR Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

SZW DARBS-STAR

Tucson DRK PXR

or

MOHAK GBN

VFR WAYPOINTS VISUAL FLIGHT RULES (VFR) WAYPOINTS

VFR Waypoint names consist of five letters beginning with "VP". Stand-alone VFR Waypoints are portrayed on VFR Charts using the same four-point star symbol currently used for Instrument Flight Rules (IFR) Waypoints.

VFR Waypoints collocated with Visual Checkpoints (Visual Reporting Points) are portrayed with a Visual Check Point flag. The VFR Waypoint name is shown in parentheses adjacent to the Visual Check Point name.

VFR Waypoint names are not intended to be pronounceable and shall not be used in ATC communications.

CAUTION: GPS accuracy necessitates extra vigilance for other aircraft when navigating near any fix retrieved from a GPS database.

BALTIMORE-WASHINGTON TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPAXI		N38°34.57′/W076°20.38′
VPONX		N39°06.65′/W076°55.92′
VPOOP		N38°56.32′/W076°36.90′
	BOSTON HELICOPTER CHART	
VPBAY		N42°16.17′/W070°49.48′
VPBLT		N42°19.67′/W070°53.40′
VPCGS		N42°22.08′/W071°03.13′
VPEVS		N42°23.52′/W071°04.10′
VPFEN		N42°12.58′/W071°08.88′
VPFRE		N42°25.03′/W071°12.32′
VPGVL		N42°21.88′/W070°52.18′
VPHAM		N42°30.13′/W071°07.15′
VPPIK		N42°20.37′/W071°15.93′
VPQUA		N42°12.10′/W071°04.78′
VPQUB		N42°12.60′/W070°59.83′
VPSPF		N42°24.20′/W071°09.47′
VPTOB		N42°31.42′/W070°59.82′
VPWAN		N42°36.88′/W071°19.45′
	BOSTON TERMINAL AREA CHART	,
VDOOLL		N 4004 0 FO/ (NO 70040 O 4/
VPCOH	Cohasset	N42°13.58′/W070°48.94′
VPCUT	Cuttyhunk Harbor	N41°25.50′/W070°55.03′
VPFRA	Framingham Shopping Center	N42°18.16′/W071°23.65′
VPHOL	Woods Hole	N41°31.06′/W070°40.60′
VPHUL	Hull	N42°18.20′/W070°55.30′
VPLPT	Nantucket Great Point	N41°23.41′/W070°02.78′
VPNED	Needham Towers	N42°18.51′/W071°14.64′
VPPEA	Peabody Shopping Center	N42°32.52′/W070°56.69′
VPROC VPSCI	Rockingham Race Track Scituate	N42°46.29′/W071°13.57′
		N42°11.89′/W070°43.69′
VPTPT	Nantucket Third Point	N41°18.51′/W070°03.37′
VPTUC VPWAK	Tuckernuck Wakefield	N41°18.31′/W070°15.43′
VPWAN	Wang Towers	N42°30.72′/W071°05.24′ N42°36.88′/W071°19.45′
VPWAIN	_	N42 30.66 / WU/1 19.43
VDATO	CHARLOTTE SECTIONAL CHART	NO 4007 07/ 0NO 70004 47/
VPATO VPAVA		N34°37.37′/W076°31.47′
VPAVA		N34°57.00′/W077°16.50′
VPBFE		N32°16.38′/W080°47.50′
VPBRA		N36°13.75′/W076°08.08′
VPGCE		N36°03.90′/W076°36.42′
VPGHI		N35°15.30′/W075°31.25′
VPGIO		N35°32.50′/W076°37.33′
VPKJU		N35°26.58′/W076°10.22′
VPLMN		N34°55.43′/W077°46.42′
VPMAB	ICLE OF DALMC	N34°42.20′/W077°03.50′
VPNPO	ISLE OF PALMS	N32°47.78′/W079°46.45′
VPOKY		N35°06.53′/W075°59.17′
VPREP		N32°33.98′/W080°21.82′
VPRRS		N33°25.45′/W079°07.60′
VPUMO		N35°35.63′/W075°28.08′
VPWZO		N36°00.87′/W075°40.07′
VPZIE		N32°01.62′/W080°53.42′

CHICAGO SECTIONAL CHART

CHICAGO SECTIONAL CHART			
WAYPOINT IDENT VPCOH	COLLOCATED VFR CHECKPOINT	LOCATION N31°49.35'/W081°51.07'	
D	ENVER TERMINAL AREA CHART/FLYWAY	CHART	
VPBEN		N39°44.28′/W104°26.00′	
VPFTG		N39°44.35′/W104°32.75′	
VPNIC	NORTH INTERCHANGE	N39°58.90′/W104°59.27′	
HO	DUSTON TERMINAL AREA CHART/FLYWA	Y CHART	
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION	
VPBWY		N29°46.25′/W095°09.24′	
VPDTN		N29°46.59′/W095°22.01′	
VPGLA		N30°08.32′/W095°06.62′	
VPGLB		N30°07.80′/W094°55.70′	
VPKTY		N29°47.05′/W095°44.92′	
VPPLN		N30°08.80′/W095°50.42′	
VPRSN		N29°30.00′/W095°41.00′	
VPSND		N29°23.13′/W095°28.86′	
VPSNT		N29°49.29′/W094°53.94′	
VPTNE		N29°47.48′/W095°03.34′	
VPTNW		N29°47.06′/W095°33.81′	
VPTRK		N29°24.06′/W095°10.44′	
	JACKSONVILLE SECTIONAL CHART		
VPAFI		N31°49.35′/W081°51.07′	
VPAFY		N30°07.00′/W081°21.33′	
VPBEC		N29°46.25′/W081°15.10′	
VPCJA		N29°30.00′/W081°06.00′	
VPCKY		N28°46.50′/W082°34.00′	
VPCNY		N28°30.00′/W080°45.00′	
VPDAD	DADE CITY	N28°22.57′/W082°11.25′	
VPDAR		N31°22.38′/W081°24.13′	
VPDFI		N29°00.17′/W081°20.85′	
VPDUT		N27°37.70′/W082°09.10′	
VPEAR	CLEARWATER BEACH	N27°58.67′/W082°49.83′	
VPEGV		N29°39.97′/W081°24.87′	
VPFFU		N28°57.08′/W081°00.33′	
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′	
VPHAA		N30°04.02′/W083°40.02′	
VPHUC		N28°19.87′/W082°43.77′	
VPIWA	MIDWAY	N31°48.33′/W081°25.85′	
VPJMY		N29°26.92′/W081°18.27′	
VPKER	LAKE PARKER	N28°04.00′/W081°56.00′	
VPLEV		N28°48.00′/W080°52.00′	
VPLJA		N29°00.00′/W080°51.00′	
VPMAI		N30°50.02′/W084°56.63′	
VPTLH		N30°32.70′/W083°52.22′	
VPXZY		N29°35.00′/W083°10.00′	
VPYIW		N30°42.28′/W081°27.25′	
VPZIE		N32°01.62′/W080°53.42′	
KANSAS CITY SECTIONAL CHART			
VPAGO		N37°50.33′/W090°29.03′	
VPBEK		N37°15.07′/W092°30.67′	
VPDEN		N37°46.75′/W092°19.20′	
VPENE		N37°44.75′/W091°55.78′	
VPESS		N36°59.48′/W091°00.88′	
VPFME		N37°41.00′/W092°38.33′	
VPGXY		N37°15.50′/W091°40.17′	
VPMBE		N37°11.08′/W090°27.92′	
VPMKE		N37°24.47′/W092°40.00′	
VPROV		N38°01.72′/W091°12.81′	
VPUTT		N37°52.05′/W092°01.20′	
		, =-	

	VI N WAIT OINTS	
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPWOC		N37°18.03′/W092°18.63′
VPWRO		N37°39.12′/W091°45.68′
VPXIZ		N37°26.60′/W092°05.42′
	KANSAS CITY TERMINAL ARE	A CHART
VPATN	ATCHISON	N39°33.62′/W095°07.65′
VPBGS	BLUE SPRINGS	N39°01.82′/W094°16.32′
VPBSP	BONNER SPRINGS	N39°03.78′/W094°53.10′
VPCHB	CHOUTEAU BRIDGE	N39°08.77′/W094°32.03′
VPDSO VPESG	DE SOTO EXCELSIOR SPRINGS	N38°58.68′/W094°58.48′
VPGTB	GARRETSBURG	N39°20.68′/W094°13.77′
VPLAT	LATHROP WATER TANK	N39°40.92′/W094°41.45′ N39°32.87′/W094°20.00′
VPLEN	LENEXA	N38°57.77′/W094°43.68′
VPLVL	LONGVIEW LAKE	N38°54.63′/W094°43.08
VPMCL	MC LOUTH	N39°11.65′/W095°12.50′
VPNHA	NASHUA	N39°17.83′/W094°34.80′
VPSCX	SPORTS COMPLEX	N39°03.00′/W094°29.02′
VPSKR	SUGAR CREEK REFINERY	N39°07.00′/W094°27.02′
VPSPK	SWOPE PARK	N39°00.47′/W094°21.02
VPTSK	TWIN STACKS	N39°09.05′/W094°38.22′
VPWOF	WORLDS OF FUN	N39°10.42′/W094°29.12′
11 1101		
	KLAMATH FALLS SECTIONAL	
VPORO		N43°57.38′/W123°02.22′
	LOS ANGELES HELICOPTER	CHART
VPANA		N33°44.43′/W117°50.03′
VPART	MAGNOLIA	N33°51.45′/W117°58.92′
VPAUT	HWY 91 & 55	N33°50.63′/W117°49.57′
VPBOB		N33°59.60′/W117°21.45′
VPCAR		N33°49.90′/W118°17.23′
VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′
VPCOR		N33°52.90′/W117°32.95′
VPCRX		N34°01.40′/W117°44.88′
VPCSU	CSU CHANNEL ISLANDS	N34°09.76′/W119°02.53′
VPDOW		N33°56.47′/W118°05.80′
VPELA		N34°00.98′/W118°10.35′
VPETY VPFCB		N33°38.70′/W117°44.12′
VPFCB	OVALADO FINIANCIAL DI AZA	N34°02.03′/W118°01.63′
VPGOL	OXNARD FINANCIAL PLAZA	N34°13.71′/W119°10.39′
VPIMP		N34°09.33′/W118°17.37′ N33°55.85′/W118°16.85′
VPKAT		N33°48.23′/W117°54.22′
VPKEL		N34°03.92′/W117°48.40′
VPLAC		N34°03.75′/W118°14.93′
VPLLU		N34°03.85′/W117°17.82′
VPLOM	QUEEN MARY	N33°45.17′/W118°11.37′
VPLQIVI	SANTA ANITA RACE TRACK	N34°08.45′/W118°02.65′
VPLVT	VINCENT THOMAS BRIDGE	N33°44.97′/W118°16.32′
VPMDR	VINOLITI THOMAS BRIDGE	N33°59.27′/W118°23.97′
VPNEW	NEWHALL PASS	N34°20.18′/W118°30.72′
VPNUY	NEWINELI AGO	N34°09.63′/W118°28.18′
VPPCH		N33°28.07′/W117°40.32′
VPPKC		N34°03.32′/W118°12.83′
VPPOR		N34°00.10′/W117°50.12′
VPRRT		N33°59.37′/W118°16.83′
VPSEP		N34°05.80′/W118°28.63′
VPSFR		N34°17.45′/W118°28.07′
VPSTC	SATICOY BRIDGE	N34°16 62′/W119°08 34′

N34°16.62′/W119°08.34′

N34°13.97'/W118°24.60'

SATICOY BRIDGE

VPSTC

VPSTK

LOS ANGELES SECTIONAL CHART

LOS ANGELES SECTIONAL CHART			
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION	
VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′	
VPCSU	CSU CHANNEL ISLANDS	N34°09.76′/W119°02.53′	
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71′/W119°10.39′	
VPSTC	SATICOY BRIDGE	N34°16.62′/W119°08.34′	
	LOS ANGELES TERMINAL AREA CHART.	/FLYWAY CHART	
VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′	
VPCSU	CSU CHANNEL ISLANDS	N34°09.76′/W119°02.53′	
VPGTY	GETTY CENTER	N34°04.84′/W118°28.66′	
VPLBP	BANNING PASS	N33°56.05′/W116°59.63′	
VPLCC	CHAFFEY COLLEGE	N34°08.87′/W117°34.33′	
VPLCP	CAJON PASS	N34°18.07′/W117°27.68′	
VPLDL	DISNEYLAND	N33°48.72′/W117°55.13′	
VPLDP	DANA POINT	N33°27.62′/W117°42.87′	
VPLDS	DODGER STADIUM	N34°04.42′/W118°14.42′	
VPLFX	91/605 INTERCHANGE	N33°52.38′/W118°06.08′	
VPLGP	GRIFFITH PARK OBSERVATORY	N34°07.10′/W118°18.02′	
VPLHF	110/405 FWYS	N33°51.42′/W118°17.10′	
VPLHP	HUNTINGTON PIER	N33°39.32′/W118°00.25′	
VPLKH	KING HARBOR	N33°50.75′/W118°23.88′	
VPLLC	L.A. COLISEUM	N34°00.83′/W118°17.27′	
VPLLM	LAKE MATHEWS	N33°50.58′/W117°26.85′	
VPLMM	MAGIC MOUNTAIN	N34°26.20′/W118°36.28′	
VPLMS	MILE SQUARE PARK	N33°43.40′/W117°56.77′	
VPLPD	PRADO DAM	N33°53.40′/W117°38.48′	
VPLPP	PACIFIC PALISADES	N34°02.13′/W118°32.15′	
VPLQM	QUEEN MARY	N33°45.17′/W118°11.37′	
VPLRB	ROSE BOWL	N34°09.67′/W118°10.05′	
VPLRT	SANTA ANITA RACE TRACK	N34°08.45′/W118°02.65′	
VPLSA	SANTA ANA CANYON	N33°52.03′/W117°42.68′	
VPLSB VPLSC	SANTA FE FLOOD BASIN	N34°07.72′/W117°57.30′ N33°52.97′/W117°53.13′	
VPLSF	STATE COLLEGE	N34°17.87′/W118°29.00′	
VPLSP	SAN FERNANDO RESERVOIR	N33°36.33′/W117°48.63′	
VPLSR	SIGNAL PEAK	N33°53.07′/W118°21.13′	
VPLSS	HAWTHORNE & 405 FREEWAY	N34°16.00′/W118°38.43′	
VPLTW	SANTA SUSANA PASS	N34°16.40′/W118°20.30′	
VPLVT	TUJUNGA WASH & FOOTHILL VINCENT THOMAS BRIDGE	N33°44.97′/W118°16.32′	
VPLWT	WATER TANK	N34°10.82′/W118°46.27′	
VPNEW	NEWHALL PASS	N34°20.18′/W118°30.72′	
VPSTC	SATICOY BRIDGE	N34°16.62′/W119°08.34′	
	SATICOT BRIDGE	,	
	MIAMI SECTIONAL CHAR	RT	
VPACH	HOLLYWOOD BEACH	N26°00.92′/W080°06.93′	
VPBOV	HOLETWOOD BEACH	N27°57.00′/W080°46.75′	
VPCLE		N26°27.07′/W082°00.88′	
VPCTE		N26°09.28′/W081°20.70′	
VPDAD	DADE CITY	N28°22.57′/W082°11.25′	
VPDUT	5/152 0111	N27°37.70′/W082°09.10′	
VPDZE		N27°19.00′/W080°44.17′	
VPEAR	CLEARWATER BEACH	N27°58.67′/W082°49.83′	
VPEDY	ANDYTOWN TOLLGATE	N26°08.78′/W080°28.00′	
VPFAH		N26°25.40′/W081°29.67′	
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′	
VPHRO		N27°05.97′/W082°12.20′	
VPHUC		N28°19.87′/W082°43.77′	
VPIBR		N27°12.47′/W081°40.22′	
VPKER	LAKE PARKER	N28°04.00′/W081°56.00′	
VPKOE		N24°40.08′/W081°20.55′	
VPLYY		N24°49.07′/W080°49.17′	
VPMBO	GULFSTREAM PARK	N25°58.57′/W080°08.17′ N26°28 30′/W080°26 75′	
VPOBA	DUMBING STATION	N26"28 3U"/WU8U"26 /5"	

EC, 17 DEC 2009 to 11 FEB 2010

PUMPING STATION

RANGER STATION

N26°28.30′/W080°26.75′

N25°50.67′/W080°55.18′

N25°22.92′/W080°36.58′

N27°03.00′/W080°35.00′

VPOBA

VPRBI VPRNL

VPWMO

MIAMI TERMINAL AREA CHART/FLYWAY CHART

MIAMI TERMINAL AREA CHART/FLYWAY CHART				
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION		
VPACH	HOLLYWOOD BEACH	N26°00.92′/W080°06.93′		
VPEDY	ANDYTOWN TOLLGATE	N26°08.78′/W080°28.00′		
VPMBO	GULFSTREAM PARK	N25°58.57′W080°08.17′		
VPOBA	PUMPING STATION	N26°28.30′/W080°26.75′		
VPRBI		N25°50.67′/W080°55.18′		
VPRNL	RANGER STATION	N25°22.92′/W080°36.58′		
	NEW ORLEANS SECTIONAL	CHART		
VPGPT		N30°25.95′/W089°05.62′		
VPLIP	PHILLIPS INLET	N30°16.23′/W085°59.25′		
VPMAI		N30°50.02′/W084°56.63′		
VPMOB		N30°23.00′/W088°31.72′		
VPRAM		N30°18.95′/W089°35.88′		
VPRER		N30°13.87′/W085°20.67′		
VPRIV		N30°54.85′/W087°57.82′		
VPSAW		N30°49.65′/W089°07.42′		
VPTHR		N30°19.93′/W087°08.50′		
	NEW YORK HELICOPTER (CHART		
VPJAY		N40°59.00′/W073°07.00′		
VPLYD		N40°57.37′/W073°29.59′		
VPROK		N40°52.70′/W073°44.24′		
	PHOENIX TERMINAL AREA CHART/	FLYWAY CHART		
VPALL	ALLENVILLE	N33°20.97′/W112°35.20′		
VPAQU	AQUEDUCT PUMPING STATION	N33°40.05′/W112°41.38′		
VPARM	ARROWHEAD MALL	N33°38.52′/W112°13.48′		
VPAWG	AHWATUKEE GOLF COURSE	N33°19.98′/W111°59.08′		
VPAZM	ARIZONA MILLS	N33°23.43′/W111°57.88′		
VPBAR	BARTLETT DAM	N33°49.10′/W111°37.92′		
VPCCC	COUNTRY CLUB & CANAL	N33°30.73′/W111°50.37′		
VPCNL	CANAL	N33°33.23′/W111°46.89°		
VPFRB	FIREBIRD LAKE	N33°16.35′/W111°58.10′		
VPFTN VPGLX	FOUNTAIN HILLS GILA CROSSING	N33°36.12′/W111°42.72′		
VPGPP	GLENDALE POWER PLANT	N33°16.55′/W112°10.08′ N33°33.27′/W112°13.00′		
VPMAR	MARICOPA	N33°03.42′/W112°13.00		
VPMHS	MESQUITE HIGH SCHOOL	N33°20.53′/W111°49.58′		
VPNRV	NEW RIVER	N33°55.08′/W112°08.45′		
VPNTT	NORTH TEST TRACK	N33°03.50′/W111°55.83′		
VPPIR	PIR	N33°22.52′/W112°18.90′		
VPQTR	QUINTERO GOLF COURSE	N33°49.53′/W112°23.58′		
VPRVC	RIO VERDE COMMUNITY	N33°44.37′/W111°39.62′		
VPSMC	SOUTH MOUNTAIN COLLEGE	N33°23.02′/W112°02.12′		
VPSQP	SQUAW PEAK	N33°32.83′/W112°01.27′		
VPSSS	SUPERSTITION SPRINGS MALL	N33°23.50′/W111°41.37′		
VPSTN	SANTAN MOUNTAINS	N33°09.23′/W111°40.92′		
VPSTT	SOUTH TEST TRACK	N32°56.25′/W111°59.67′		
VPZZZ		N33°20.18′/W111°26.53′		
	ST LOUIS TERMINAL AREA CHART/	FLYWAY CHART		
VPAGN	TV ANTENNA	N38°32.08′/W090°22.42′		
VPBPE		N38°23.80′/W090°20.38′		
VPCJY	HOLIDAY SHORES	N38°55.00′/W089°56.00′		
VPCOJ	WINFIELD DAM	N39°00.28′/W090°41.23′		
VPDFA	JEFFERSON BARRACKS BRIDGE	N38°29.18′/W090°16.47′		
VPEAZ	BUSCH STADIUM	N38°37.43′/W090°11.55′		
VPEDZ	WATER TANKS	N38°45.30′/W090°34.87′		
VPEGR	GAS TANKS	N38°35.80′/W090°19.32′		
VPEOX	ST PETERS	N38°47.17′/W090°39.25′		

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPFAI	HOWELL ISLAND	N38°40.00′/W090°43.00′
VPFFY		N38°55.37′/W090°17.30′
VPGPF		N38°35.60′/W090°26.92′
VPGVI		N38°32.30′/W090°27.80′
VPHRQ	CHAIN OF ROCKS BRIDGE	N38°45.88'/W090°10.42'
VPIB0	WATERLOO	N38°20.00′/W090°09.00′
VPJMU	HORSESHOE LAKE	N38°41.00′/W090°05.00′
VPKNY	PACIFIC	N38°29.00′/W090°44.00′
VPLES	ST CHARLES	N38°47.00′/W090°30.00′
VPLIW	SIX FLAGS	N38°30.67'/W090°40.47'
VPLXU	GATEWAY ARCH	N38°37.50′/W090°11.00′
VPNSY	WOOD RIVER REFINERIES	N38°50.00′/W090°05.00′
VPNZY	WENTZVILLE	N38°48.83'/W090°50.98'
VPRAZ	JERSEYVILLE	N39°07.00′/W090°20.00′
VPRMO	FOREST PARK	N38°38.00′/W090°17.00′
VPWKO	COLUMBIA	N38°27.00′/W090°12.00′
VPXXI	MILLSTADT	N38°27.50′/W090°05.68′
VPYID	MOSENTHEIN ISLAND	N38°43.00′/W090°12.25′

SALT LAKE CITY HELICOPTER CHART

VPAIR	SALTAIR	N40°44.85′/W112°11.22′
VPBEE	SOUTH INTERCHANGE	N40°38.18'/W111°54.23'
VPBRN	BARN	N40°54.28′/W112°10.15′
VPCAP	STATE CAPITOL	N40°46.67′/W111°53.25′
VPCHS		N40°42.28'/W112°05.92'
VPCOP	BINGHAM COPPER MINE	N40°31.38′/W112°09.00′
VPCWY	CAUSEWAY	N41°05.37'/W112°07.17'
VPCYN	PARLEYS CANYON	N40°42.67′/W111°48.10′
VPFPC	FREE PORT CENTER	N41°05.92'/W112°02.27'
VPFPK	FRANCIS PEAK	N41°01.98′/W111°50.30′
VPGFS	GARFIELD STACK	N40°43.28′/W112°11.88′
VPHVE	SPAGHETTI BOWL	N40°43.50′/W111°54.22′
VPJRT	JORDAN RIVER TEMPLE	N40°35.02′/W111°55.58′
VPKSL	KSL ANTENNA	N40°46.80′/W112°05.80′
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08'/W111°53.57'
VPMDH	MCKAY DEE HOSPITAL	N41°11.50′/W111°57.08′
VPMMT	MICROWAVE TOWERS	N40°48.50′/W111°53.37′
VPMSH		N41°01.67'/W112°02.47'
VPNSL		N40°50.15′/W111°54.90′
VPNTP		N41°03.57'/W112°14.23'
VPOGE	GRAIN ELEVATOR	N41°13.13′/W112°00.45′
VPOPS	POWER STATION	N41°20.38'/W112°02.78'
VPPEN	STATE PRISON	N40°29.88'/W111°53.62'
VPPPT	PROMONTORY POINT	N41°12.28′/W112°25.73′
VPPTM	POINT OF THE MOUNTAIN	N40°27.42′/W111°54.83′
VPPVO	PROVO CANYON	N40°18.77′/W111°39.45′
VPRWY		N40°48.48'/W112°00.33'
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83′/W111°54.85′
VPTIP	SOUTH TIP	N40°50.93′/W112°10.92′
VPWBR	WEBER CANYON	N41°08.17′/W111°54.83′
VPWBT		N40°38.00′/W112°03.33′

SALT LAKE CITY TERMINAL AREA CHART/FLYWAY CHART

VPAIR	SALTAIR	N40°44.85′/W112°11.22′
VPBEE	SOUTH INTERCHANGE	N40°38.18′/W111°54.23′
VPBRN	BARN	N40°54.28′/W112°10.15′
VPCAP	STATE CAPITOL	N40°46.67′/W111°53.25′
VPCHS		N40°42.28′/W112°05.92′
VPCOP	BINGHAM COPPER MINE	N40°31.38′/W112°09.00′
VPCVI	CENTERVILLE INTERCHANGE	N40°55.30′/W111°53.43′
VPCWY	CAUSEWAY	N41°05.37′/W112°07.17′
VPCYN	PARLEYS CANYON	N40°42.67′/W111°48.10′
VPFPC	FREE PORT CENTER	N41°05.92′/W112°02.27′
VPFPK	FRANCIS PEAK	N41°01.98′/W111°50.30′
VPGFS	GARFIELD STACK	N40°43.28′/W112°11.88′

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPHVE	SPAGHETTI BOWL	N40°43.50′/W111°54.22′
VPJRT	JORDAN RIVER TEMPLE	N40°35.02′/W111°55.58′
VPKSL	KSL ANTENNA	N40°46.80′/W112°05.80′
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08'/W111°53.57'
VPMDH	MCKAY DEE HOSPITAL	N41°11.50′/W111°57.08′
VPMMT	MICROWAVE TOWERS	N40°48.50′/W111°53.37′
VPMSH		N41°01.67'/W112°02.47'
VPNSL		N40°50.15′/W111°54.90′
VPNTP		N41°03.57′/W112°14.23′
VPOGE	GRAIN ELEVATOR	N41°13.13′/W112°00.45′
VPOPS	POWER STATION	N41°20.38′/W112°02.78′
VPPEN	STATE PRISON	N40°29.88'/W111°53.62'
VPPPT	PROMONTORY POINT	N41°12.28′/W112°25.73′
VPPTM	POINT OF THE MOUNTAIN	N40°27.42′/W111°54.83′
VPPVO	PROVO CANYON	N40°18.77′/W111°39.45′
VPRWY		N40°48.48′/W112°00.33′
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83′/W111°54.85′
VPTIP	SOUTH TIP	N40°50.93′/W112°10.92′
VPUOU	U OF U EVENTS CENTER	N40°45.73′/W111°50.28′
VPWBR	WEBER CANYON	N41°08.17'/W111°54.83'
VPWBT		N40°38.00′/W112°03.33′
VPZ00	HOGLE ZOO	N40°45.00′/W111°48.95′

SAN DIEGO TERMINAL AREA CHART/FLYWAY CHART

VPLDP	DANA POINT	N33°27.62′/W117°42.87′
VPLSP	SIGNAL PEAK	N33°36.33′/W117°48.63′
VPOCN		N33°14.15′/W117°26.63′
VPSBC	BARONA CASINO	N32°56.25′/W116°52.60′
VPSBL		N33°05.18'/W117°18.55'
VPSBM	BLACK MOUNTAIN	N32°58.87'/W117°07.00'
VPSCF		N32°48.55′/W117°09.17′
VPSCM	COWLES MOUNTAIN	N32°48.72′/W117°01.97′
VPSCP	CRYSTAL PIER	N32°47.77′/W117°15.42′
VPSCR		N32°39.37'/W117°07.30'
VPSFB	IRON MOUNTAIN	N32°58.25′/W116°57.33′
VPSLJ	LAKE JENNINGS	N32°51.53′/W116°53.28′
VPSMB		N32°45.57′/W117°12.22′
VPSMP		N33°22.70′/W117°36.75′
VPSMS	MOUNT SOLEDAD	N32°50.40′/W117°15.10′
VPSMV		N32°45.75′/W117°09.80′
VPSMW	MOUNT WOODSON	N33°00.52′/W116°58.23′
VPSOP	OTAY MESA PRISON	N32°35.82′/W116°55.28′
VPSOT	LOWER OTAY LAKE	N32°37.73′/W116°55.38′
VPSPL	SOUTH POINT LOMA	N32°39.90′/W117°14.55′
VPSPP	POWER PLANT	N33°08.25′/W117°20.23′
VPSQS	QUALCOMM STADIUM	N32°46.98'/W117°07.23'
VPSRT	DEL MAR RACE TRACK	N32°58.58′/W117°15.95′
VPSSM	SAN MIGUEL MOUNTAIN	N32°41.78′/W116°56.18′
VPSSV	SAN VICENTE ISLAND	N32°55.53′/W116°55.00′
VPSTP	TORREY PINES GOLF COURSE	N32°54.17′/W117°14.68′
VPSVA		N33°11.48′/W117°16.38′

SAN FRANCISCO SECTIONAL CHART

VPKBG KINGSBURY GRADE N38°58.75′/W119°53.20′

SAN FRANCISCO TERMINAL AREA CHART/FLYWAY CHART

VPALT	ALTAMONT PASS	N37°44.35′/W121°35.42′
VPANT	ANTIOCH BRIDGE	N38°01.45′/W121°45.02′
VPBBR	BENICIA BRIDGE	N38°02.50′/W122°07.45′
VPCAL	CALAVERAS RESERVOIR	N37°28.16′/W121°48.93′
VPCBT	LAKE CHABOT	N37°43.68′/W122°06.94′
VPCOY	COYOTE HILLS	N37°32.50′/W122°05.06′
VPCQZ	CARQUINEZ BRIDGE	N38°03.66′/W122°13.52′
VPCRL		N37°11.00′/W121°41.06′
VPCRY	CRYSTAL SPRINGS CAUSEWAY	N37°30.56′/W122°21.10′

VFR WAYPOINTS

WAYDON'T IDENT	COLLOCATED VED OUTOVDOUNT	100471011
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCSH	CAL STATE UNIVERSITY	N37°39.52′/W122°03.52′
VPDAM	DEL VALLE DAM	N37°36.91′/W121°44.78′
VPDLR		N37°07.00′/W121°47.06′
VPDUB	DUBLIN	N37°42.06′/W121°55.36′
VPEMB	EMBASSY SUITES	N37°26.05′/W121°53.83′
VPGGF	GOLDEN GATE FIELDS	N37°53.07′/W122°18.71′
VPGIL	GILROY	N37°01.37′/W121°33.99′
VPHHH	HAMILTON	N38°03.58′/W122°30.66′
VPKG0	KG0	N37°31.58′/W122°06.10′
VPLEX	LEXINGTON RESERVOIR	N37°11.66′/W121°59.18′
VPMID	MID-SPAN SAN MATEO BRIDGE	N37°36.28′/W122°11.81′
VPMOR	MORMON TEMPLE	N37°48.46′/W122°11.95′
VPNUM	NUMMI PLANT	N37°29.56′/W121°56.58′
VPPAC		N37°38.00′/W122°32.07′
VPPRU	PRUNEYARD	N37°17.33′/W121°56.01′
VPSAR	SARATOGA	N37°15.26′/W122°02.33′
VPSLA	SLAC/LINEAR ACCELERATOR	N37°24.75′/W122°14.35′
VPSTB	STINSON BEACH	N37°54.45′/W122°40.41′
VPSUN	SUNOL GOLF COURSE	N37°34.85′/W121°53.23′
VPUTC	U.T.C.	N37°13.93′/W121°41.35′
VPWAL	WALNUT CREEK	N37°53.78'/W122°04.30'
VPWAM		N37°30.28'/W122°10.00'
VPWFR	CEMENT PLANT	N37°30.88′/W122°12.26′
TAMPA	/ORLANDO TERMINAL AREA CHART/FLY\	WAY CHART
VPBOV		N27°57.00′/W080°46.75′
VPCNY		N28°30.00′/W080°45.00′
VPDAD	DADE CITY	N28°22.57′/W082°11.25′
VPDFI		N29°00.17′/W081°20.85′
VPDUT		N27°37.70′/W082°09.10′
	-	,

VPBOV		N27°57.00′/W080°46.75′
VPCNY		N28°30.00′/W080°45.00′
VPDAD	DADE CITY	N28°22.57′/W082°11.25′
VPDFI		N29°00.17'/W081°20.85'
VPDUT		N27°37.70′/W082°09.10′
VPEAR	CLEARWATER BEACH	N27°58.67′/W082°49.83′
VPFFU		N28°57.08′/W081°00.33′
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′
VPHUC		N28°19.87'/W082°43.77'
VPKER	LAKE PARKER	N28°04.00′/W081°56.00′
VPLEV		N28°48.00′/W080°52.00′
VPLJA		N29°00.00′/W080°51.00′

WASHINGTON SECTIONAL CHART

	 ====
VPACE	 N38°07.82′/W076°48.75′
VPAXI	 N38°34.57'/W076°20.38'
VPBRA	 N36°13.75′/W076°08.08′
VPGCE	 N36°03.90′/W076°36.42′
VPWZO	 N36°00.87′/W075°40.07′

Remarks

VOR RECEIVER CHECK

VOR RECEIVER CHECKPOINTS AND VOR TEST FACILITIES (VOT)

The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

NOTE: Under columns headed "Type of Checkpoint" & "Type of VOT Facility" G stands for ground. A/ stands for airborne followed by figures (2300) or (1000–3000) indicating the altitudes above mean sea level at which the check should be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.

ILLINOIS

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Centralia (Centralia Muni)	115.0/ENL 110.0/CMI	A/2000 A/2000	027 177	6.1 7.8	Over apch end Rwy 36. Over grain elevator at Pesotum.
Champaign (University of Illinois-Willard)	110.0/CMI	G	332	0.9	On runup pad Rwy 14L.
Decatur (Decatur)	117.2/DEC	A/1700	348	5.4	Over apch end Rwy 36.
Galesburg	109.8/GBG	A/3000	237	12	Over railroad bridge.
Jacksonville	108.6/IJX	A/1600	137	11.1	Over railroad crossing 2 NM NW of Franklin.
Joliet (Aurora Muni)	112.3/JOT	A/2500	331	15	Over intersection of rwys.
Joliet (Joliet Rgnl)	112.3/JOT	A/1500	102	6.5	Over centerline of NW end
					of Rwy 04-22.
Lawrenceville (Lawrenceville-Vincennes					-
Intl)	108.8/LWV	G	177	.6	South side of Echo.
Marion (Williamson Co Rgnl)	110.4/MWA	A/1500	287	11	Railroad intersection in town of De Soto.
	110.4/MWA	G	139	.5	On parallel twy to Rwy 29.
Mattoon/Charleston (Coles Co Memorial)	109.4/MTO	G	066	.7	Runup pad Rwy 24. VOR checkpoint unusable.
Moline (Quad City Intl)	114.4/MZV	A/2000	034	9.8	Over intersection of Rwys 05–23, 09–27, 13–31.
Mount Vernon (Mount Vernon)	113.8/VNN	G	223	3.2	At intersection of taxiways B and B2.
Peoria (Greater Peoria RgnI)	115.2/PIA	A/2000	100	4.9	Over intersection Rwys 13–31 and 4–22.
Quincy (Quincy Rgnl-Baldwin Fld)	113.6/UIN	G	029	6.6	On W side of terminal ramp.
Roberts	116.8/RBS	A/2000	151	7.8	Over grain elevator in Paxton, IL.
Rockford (Chicago/Rockford Intl)	110.8/RFD	G	108	5.1	Over intersection of twys A/B/D.
Samsville (Mount Carmel Muni)	116.6/SAM	A/1500	063	18.4	Over intersection of Rwys 04–22 and 13–31.
Troy (St Louis Rgnl)	116.0/TOY	A/1600	322	11	Over intersection of N/S and NW/SE rwys.
Vandalia (Vandalia Muni)	114.3/VLA	A/1700	177	5.8	Over centerline at N end N/S rwy.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility
Chicago (Midway)	111.0 112.0	G

VOR RECEIVER CHECK INDIANA

VOR RECEIVER CHECKPOINTS

		Type			
		Check	Azimuth	Dist.	
		Pt.	from	from	
		Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Boiler (Purdue Univ)	115.1/BVT	A/1800	286	12	Over water twr in town of Fowler.
Goshen (Goshen Muni)	113.7/GSH	A/2000	090	10.7	Over center of E/W rwy.
Hoosier (Monroe County)	110.2/00M	G	349	.9	On runup pad Rwy 17.
Huntingburg	109.2/HNB	A/2500	010	8	Over water tower S edge Jasper.
Kokomo (Kokomo Muni)	113.5/0KK	G	242	.6	On taxiway A at AER 05.
Marion (Marion Muni)	108.6/MZZ	G	206	.6	Runup Pad Rwy 04
Muncie (Delaware Co-Johnson Fld)	114.4/MIE	A/2500	181	5.8	Over intersection of highway and railroad.
	114.4/MIE	G	328	0.7	On taxiway A-4 on runup area for Rwy 14.
Pocket City (Evansville Rgnl)	113.3/PXV	A/2000	056	13	Over intersection of E/W and NE/SW rwys.
Terre Haute (Sky King)	115.3/TTH	A/2000	300	7	Over intersection of E/W and N/S rwys.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
Fort Wayne IntlIndianapolis Intl		G G	

MICHIGAN

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
		_			
Alpena (Alpena Co Rgnl)	108.8/APN	G	203	1.1	On runup for Rwy 01.
Au Sable (Oscoda-Wurtsmith)	116.1/ASP	G	249	.9	Approach end Rwy 6.
	116.1/ASP	G	063	1.0	Approach end Rwy 24.
Battle Creek (W.K. Kellogg)	109.4/BTL	A/2000	096	11.3	NS and EW highway intersection.
Escanaba	110.8/ESC	A/2500	002	14.5	Over microwave twr 1 NM S of Perkins.
Gaylord (Gaylord Rgnl)	109.2/GLR	G	077	.6	SE corner of ramp.
Grand Rapids (Gerald R Ford Intl)	115.95/GRR	A/2500	231	10	Over intersection of N/S highway & E/W road 1 NM W of Wayland.
Houghton (Houghton Co Meml)	112.8/CMX	A/2300	077	13.5	Over smoke stack.
Kalamazoo (Kalamazoo/Battle Creek Intl)	109.0/AZO	G	167	.7	On twy to Rwy 35.
Lansing (Capital City)	110.8/LAN	G	058	5.4	On Twy C; 500 E of apch end Rwy 06.
Litchfield	111.2/LFD	A/2000	328	17.5	Over intersection of NS/EW expressway.
Manistique (Schoolcraft County)	110.4/ISQ	A/2400	078	13.2	Over railroad intersection.
Muskegon (Muskegon County)	115.2/MKG	A/2000	272	8.4	Over intersection of NW/SE and NE/SW rwys.
Peck (St Clair County Intl)	114.0/ECK	A/2000	166	22.5	Over apch end Rwy 04.

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Pellston (Cheboygan City–County)	111.8/PLN	A/2000	084	6.4	Over center of E/W rwv.
Pellston (Pellston Rgnl Arpt of Emmet Co)	111.8/PLN	G	241	6.4	At intersection of N/S and E/W twys.
Pontiac (Oakland Co Intl)	111.0/PSI	G	113	5.8	On circle on warmup pad apch end Rwy 27L.
	111.0/PSI	G	120	5.0	On circle on warmup pad apch end Rwy 09R.
Saginaw	112.9/MBS	A/1700	058	6.7	Over intersection US 10 and I-75.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
Detroit City Detroit (Detroit Metropolitan Wayne Co.)		G G	

OHIO

VOR RECEIVER CHECKPOINTS

Facility Name (Airport Name)	Freg/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
racinty Name (Airport Name)	ried/ident	AD/ALI	iviag	IN.IVI.	Checkpoint Description
Buckeye (Port Bucyrus–Crawford Co)	109.8/BUD	A/2500	027	10.5	Over intersection E/W grass strip and Rwy 04–22.
Dryer (Loraine County Rgnl)	113.6/DJB	G	222	1.3	At intersection of taxiway and ramp.
Jefferson (Ashtabula Co)	115.2/JFN	G	067	2.4	On ramp.
Jefferson (Germack)	115.2/JFN	A/2000	278	9.0	At intersection of E/W interstate highway and N-S highway south of town of Geneva Ohio.
Mansfield (Shelby Community)	108.8/MFD	A/2000	277	4.8	Over hangar NW corner of arpt.
Mansfield (Mansfield Lahm Rgnl)	108.8/MFD	G	134	4.7	At intersection of taxiways A and D.
Springfield (Springfield–Beckley Muni)	113.2/SGH	G	050	1.2	On NE taxiway abeam approach end Rwy 24.
Waterville (Fulton Co.)	113.1/VWV	A/1800	295	24.2	Over hangar on WSW side of arpt.
Zanesville (Zanesville Muni)	111.4/ZZV 111.4/ZZV	A/2000 G	270 028	5.5 .5	Over water tank. On taxiway near apch end of Rwy 22.

VOR RECEIVER CHECK VOR TEST FACILITIES (VOT)

Facility Name		Type VOT	
(Airport Name)	Freq.	Facility	Remarks
Akron Canton Rgnl	110.6	G	
Cincinnati Muni Arpt Lunken Field	108.4	G	
Cleveland Hopkins Intl	110.4	G	
Columbus (Port Columbus Intl.)	111.0	G or	Within 10 NM radius of
		A/2300-5000	airport.
Dayton (James M Cox Dayton Intl.)	111.0	G or	Within a 10 NM radius of
		A/2500-4000	arpt.
Sidney (Sidney Muni)	111.0	A/2500-4000	

WISCONSIN

VOR RECEIVER CHECKPOINTS

			••		
Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Eau Claire (Chippewa Valley Rgnl)	112.9/EAU	G	182	2.1	Center of ramp.
Green Bay (Austin Straubel Intl)	115.5/GRB	G	141	4.6	On Twy M1 at Rwy 18R apch end.
Janesville	114.3/JVL	A/1900	287	12.7	Over water tower N of Brodhead.
Janesville (Southern Wisconsin Rgnl)	114.3/JVL	G	035	4.3	On taxiway A1.
Kenosha (Sylvania)	109.2/ENW	A/2100	353	5.9	Over N/S interstate highway bridge over E/W highway N of arpt.
LaCrosse (La Crosse Muni)	108.4/LSE	G	356	1.0	Runup pad AER Rwy 18.
Madison (Dane Co Rgnl/Truax Fld)	108.6/MSN	G	151	0.6	On NE corner air national guard ramp adjacent to taxiway D.
Manitowoc (Manitowoc Co)	111.0/MTW	G	196	0.5	SW corner of terminal ramp.
Oshkosh (Wittman RgnI)	111.8/0SH	G	282	0.6	On taxiway at Rwy 09 apch end
	111.8/OSH	G	173	0.7	On N/S taxiway abeam control tower.
Rhinelander (Rhinelander-Oneida Co)	109.2/RHI	G	212	0.5	At intersection of E–W taxiway at terminal.
Sheboygan Falls (Sheboygan Co Meml)	110.0/FAH	G	232	.4	On taxiway at Rwy 03 apch end.
Stevens Point (Stevens Point Muni)	110.6/STE	A/2500	257	12.1	Over N/S railroad and E/W road in Rudolph.
	110.6/STE	G	022	0.6	From AER 21.
Wausau (Central Wisconsin)	111.6/AUW	A/2800	222	5.5	Over intersection of N-S and E-W rwys.
West Bend	109.8/BJB	A/2500	220	7.6	Over microwave tower E of Slinger.

VOR TEST FACILITIES (VOT)

Facility Name		Type VOT	
(Airport Name)	Freq.	Facility	Remarks
Milwaukee (Gen Mitchell Intl)	109.0	G	

The following tabulation lists all reported parachute jumping sites in the area of coverage of this directory. Unless otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. The busiest periods of activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the locations listed. Jumps within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact the nearest FSS, tower or ARTCC.

Qualified parachute jumping sites will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jump area is charted.

- To qualify for charting, a jump area must meet the following criteria: (1) Been in operation for at least 1 year.
 - (2) Operate year round (at least on weekends).
 - (3) Log 4,000 or more jumps each year.

In addition, jump sites can be nominated by FAA Regions if special circumstances require charting.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
	ILLINOIS		
(c) Carmi Muni	19.7 NM; 298°Pocket City	9,500 AGL	3 NM radius. SR-SS weekends.
Deer Grove		12,500	3 NM radius. SR-SS Year round.
Greenville Arpt		13,500	3 NM radius. Weekends and holidays, SR-1 hour after SS. Kansas City Center 127.7
(c) Hinckley Arpt	22 NM; 308°Joliet	14,500 AGL	2 NM radius. Mon-Fri 0800 to 1 hour after SS, Sat-Sun 0700 to 1 hour after SS.
(c) Minier, Illinois Valley Parachute Club			
	25 NM; 122°Peoria	15,000	Daily SR to 1 hour after SS.
(c) Ottawa, Skydive Chicago Arpt	23.1 NM; 250° Joliet	17,500 AGL	2 NM radius. SR to 1 hour past SS.
(c) Rantoul National Aviation Center–Frank Elliott Fld	16.5 NM; 019° Champaign	13,500	2 NM radius. Daily 0600-2200.
Sterling		12,000 AGL	Year round SR-SS. 10 NM radius.
Tampico		12,500	1 NM radius. 1000–SS daily.
(c) Taylorville, Taylorville Muni (c) Vandalia, Vandalia Muni		15,000 15,000	5 NM radius. SR-1 hr past SS. 5 NM radius. Fri, Sat, Sun and
(C) Vallualia, Vallualia Mulli	0.2 NW, 170 Vallualla	15,000	holidays, SR-½ hour past SS. Kansas City Center 124.3
	INDIANA		Randas only contor 12 1.5
(c) Angola, Tri–State Steuben Co Arpt		14,500	5 NM radius, Mon, Wed, Fri, Sat,
Cloverdale, Swope Airstrip	25 NM: 095° Torro Hauto	12,500	Sun 0900–SS. 5 NM radius. SR–SS daily.
(c) Connersville		13,500	5 NM radius. Sn=33 daily. 5 NM radius. Daily SR–SS.
Crawfordsville, Crawfordsville Muni		15,000	3 NM radius. Fri–Sat–Sun SR–SS.
(c) Flora, Flora Muni		13,000	5 NM radius. Weekends and holidays, 0900–SS daily.
			Grissom APP CON 121.05
Franklin Flying Fld		13,500	5 NM radius. SR-SS daily.
(c) Goshen Muni		14,500 AGL	1 NM radius. Weds, Fri–Sat–Sun SR–SS. South Bend Rgnl Tower 132.05
(c) Greensburg Muni		12,000 AGL	2 NM radius. 0900-2000 daily.
Hobart Sky Ranch Arpt		10,000 AGL	2 NM radius. Weds, weekends 0800-SS.
Kingsbury		1,500	0.3 NM radius. Occasional use.
Mentone		12,500	3 NM radius. SR-SS daily.
Muncie, Horizon Fld		13,000	Daily 0600-1900.
(c) Richmond, Richmond Muni		14,500	3 NM radius. SR-1 hour after SS-daily.
Veedersburg, Songer Arpt	24 NM; 220°Boiler	10,000	5 NM radius. Weekends and holidays, SR-SS.
	MICHIGAN		
(c) Allegan, Padgham Fld		10,700	2 NM radius. Daily SR-SS.
East Tawas, Iosco Co Arpt		15,000	5 NM radius. May-Oct SR-SS daily.
Fowlerville		12,000	5 NM radius. Apr-Oct 0800-SS.
Fremont Muni	_	12,000	3 NM radius. Apr-Oct Sat-Sun SR-SS.
Harbor Springs	17 NM; 235° Pellston	12,000	3 NM radius. May–Sep daily SR–SS.

LOCATION Marshall, Brooks Fld	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC 14 NM; 107° Battle Creek	MAXIMUM ALTITUDE 15,000	REMARKS 5 NM radius. Apr–Oct daily
(c) Mount Pleasant Muni Arpt	Ø NM; Mount Pleasant	14,000	0900-SS. 2 NM radius. Jan-Dec daily 0900-SS.
(c) Romeo	26 NM: 095° Pontice	15,000	2 NM radius. Apr–Oct daily SR–SS.
(c) Saginaw, Saginaw Co H.W. Browne	11 NM; 125° Saginaw	12,000	2 NM radius. Apr–Nov daily SR–SS.
(c) Tecumseh, Meyers-Diver's	22 NM; 272°Carleton	17,000	5 NM radius. Apr-Oct daily SR-SS.
Alliance, Barber Arpt	OHIO 9 NM; 155° Akron	13,500	5 NM radius. Mon, Wed, Thur, Fri and weekends SR-SS.
Alliance, Miller Arpt Bellville		13,500 AGL	5 NM radius. Daily SR-SS. 5 NM radius. SR-SS weekend.
(c) Bowling Green, Bordner Arpt		8,500 14,000	Daily. Radius 2 NM.
(c) Celina, Lakefield Arpt		14,000	1 NM radius. Daily SR–SS.
Centerburg, Chapman Mem	12 NM: 325°Annleton	12,000	SR-SS weekends.
(c) Chesapeake, Lawrence Co Airpark		11,000	1 NM radius. 0900–2300 Sat–Sun. 1600–2300 Wed–Fri. Tri–State/Milton J. Ferguson Field Tower 119.75
(c) Circleville, Clark Dream Strip	13 NM; 332° Yellow Bud	17,500	2 NM radius. Wed 0600-Sun 2400. Port Columbus Intl Tower 125.95
Commercial Point	32 NM; 233°Appleton	10,000	0800-2100 Sat, Sun.
Findlay	9 NM; 355°Findlay	12,500 AGL	Daily.
Fulton County Arpt	24.5; 295° Waterville	10,500	Daily SR-SS.
(c) Garrettsville, Gates Arpt		13,500 AGL	SR-SS daily.
Grafton, Mole Arpt		12,500	0700-0930 daily.
Lebanon, Lebanon-Warren Co Arpt		14,500 AGL	5 NM radius. Daily SR-SS.
Mansfield	4 NM; 132° Mansfield	3,000	3 NM radius. Tue-Fri 0800-2200. Unit training assemblies 1 weekend a month.
Ottawa, Putnam County Arpt	10.9 NM: 298°Findlay	10,500 AGL	SR-2400.
(c) Petersburg		12,500 AGL	2 NM radius, Mon-Fri 1700-SS, weekends SR-SS.
(c) Rittman, Hilty Fld	21 NM; 314° Briggs	16,000 AGL	5 NM radius. Daily 1 hour before SR-1 hour after SS.
Salem, Phillis Lakefront Arpt	27 NM; 088°Briggs	10,000	Evening and weekends to SS
Stonelick Parachute Center		10,000	SR-SS daily.
Sycamore		12,500 AGL	1 NM radius. Daily SR-SS.
Van Wert County	-	10,000	Weekdays 1600-SS, Weekends SR-SS
Vickery, Wrights Fld		10,000 AGL	SR-SS weekends.
(c) Xenia, Skydive Green County Inc	32 NM; 129°DaytonWISCONSIN	12,500 AGL	Daily SR-2400.
(c) Baldwin Arpt		15,000 AGL	Wed-Fri 1500-½ hour past SS, Weekends SR-½ hour past SS.
(c) Bristol, Winfield Arpt		12,500 AGL	SR-½ hour past SS.
(c) Chippewa Falls, Wissota Arpt		15,000	5 NM radius. Daily SR-1 hour past SS.
(c) East Troy Muni Arpt		14,500 AGL	SR-1/2 hour past SS.
Edgerton, Jana Arpt		11,000	10 NM radius. Wed–Sun & Holidays SR–SS.
(c) Fort Atkinson Muni		14,000	3 NM radius. Daily SR-SS.
Lake Delton(c) Lancaster Muni Arpt		12,500 13,500 AGL	Daily May 15–Sept 25. 2 NM radius. Sat–Sun 0900–1 hr past SS. Wed and Fri 1500–1 hr past SS.
(c) Marshall, Mathaire Fld	16 NM; 058°Madison	12,500 AGL	SR-½ hour past SS.
(c) Oshkosh		13,500 AGL	Daily SR-SS.
(c) Pulaski, Carter Arpt	5 NM; 350°Green Bay	12,000 AGL	Daily SR-SS.
(c) Shiocton	17 NM; 250° Green Bay	13,500	5 NM SR-SS daily.
(c) Superior, Richard I Bong		12,500 AGL	3 NM radius. Daily SR-1 hour past
			SS.

The purpose of this bulletin is to provide major changes in aeronautical information that have occurred since the last publication date of each Sectional Aeronautical, VFR Terminal Area, and Helicopter Route Charts listed. The general policy is to include only those changes to controlled airspace and special use airspace that present a hazardous condition or impose a restriction on the pilot, and major changes to airports and radio navigational facilities, thereby providing the VFR pilot with the essential data necessary to update and maintain chart currency. The data is grouped by type and then by effective date. When a new edition of the Aeronautical Chart is published, the corrective tabulation will be removed from this bulletin. Inasmuch as this Bulletin provides major changes only, pilots should consult the airport listing in this directory for all new information. Users of U.S. World Aeronautical Charts (WAC) and U.S. Gulf Coast VFR Aeronautical Charts should consult the appropriate Sectional and VFR Terminal Area Charts for revisions.

Military Training Routes (MTRs) are shown on Sectional Aeronautical Charts, VFR Terminal Area, and Helicopter Route Charts. Only the route centerline, direction of flight and the route designator are shown —route widths and altitudes are not shown. Since these routes are subject to change every 56 days and the charts are reissued generally every 6 months, routes with a change in the alignment of the charted route centerline will be listed in this Aeronautical Chart Bulletin below. You are advised to contact the nearest FSS for route dimensions and current status for those routes affecting your flight.

CG-21 WORLD AERONAUTICAL CHART 39th Edition, 24 Sep 2009

OBSTRUCTIONS

22 Oct 2009 Add obst 1348'MSL (600'AGL), 34°15'06"N, 84°59'12"W. Change obst from 312'MSL to 1312'MSL, 33°35'33"N, 083°58'31"W. **17 Dec 2009** No Major Changes.

AIRPORT

22 Oct 2009 Change elevation from 191' to 1911' at Blairsville arpt, 34°51'16"N, 083°59'50"W. Change runway orientation to 01/19 at Halifax-Northhampton Co Rgnl arpt, 36°19'47"N, 077°38'07"W. 17 Dec 2009 No Major Changes.

NAVAIDS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

CHICAGO HELICOPTER ROUTE CHART 5th Edition, 12 May 2005

OBSTRUCTIONS 12 May 2005 - 7 Jul 2005 No Major Changes. 1 Sep 2005 Add obst 896' MSL (300' AGL) UC, 41°46'40"N, 87°49'16"W. 27 Oct 2005 - 5 Jul 2007 No Major Changes. 30 Aug 2007 Change group obst from 1780'MSL (1195'AGL) to 1973'MSL (1375'AGL)UC, 41°53'20"N. 87°37⁷36"W 25 Oct 2007 Change obst from 1130'MSL (335'AGL) to 1195'MSL (400'AGL), 41°36'01"N, 87°58'44"W. 20 Dec 2007 - 31 Jul 2008 No Major Changes. 25 Sep 2008 Add obst 968'MSL (370'AGL)UC, 41°34'40"N, 87°31'33"W. 20 Nov 2008 - 17 Dec 2009 No Major Changes. **AIRPORTS** 12 May 2005 - 7 Jul 2005 No Major Changes. 1 Sep 2005 Delete MILL ROSE arpt, 42°04'38"N, 88°09'35"W. 27 Oct 2005 Delete DARIEN-WOODRIDGE FIRE DEPT heliport, 41° 45'15"N, 88°00'26"W. 22 Dec 2005 - 5 Jul 2007 No Major Changes. 30 Aug 2007 Change CTAF freq 123.05 to 122.9 at SCHAUMBURG MUNI HELISTOP heliport. 42°02′53″N, 88°03′09″W. Delete ADDISON FIRE DEPARTMENT STATION 3 heliport, 41°55'48"N, 88°02'28"W. 25 Oct 2007 - 10 Apr 2008 No Major Changes. 5 Jun 2008 Delete LANDIS PLASTICS heli. 41°40'43"N. 87°45'45"W. Delete CRYSTAL LAKE HOLIDAY INN heli, 42°13'14"N, 88°17'05"W. Delete CLARK heli, 42°22′06″N, 87°59′30″W. **31 Jul 2008 – 20 Nov 2008** No Major Changes. 15 Jan 2009 Change CHICAGO O'HARE ATCT frequencies from 120.75(S), 126.9(N), 127.925 132.7 390.9 to 120.75 126.9 (CNTR TWR), 132.7 390.9 (CNTR TWR), 135.925 (N TWR), 41°58'51"N, 87°54'23"W. 12 Mar 2009 No Major Changes. 7 May 2009 Delete SEARS MERCHANDISE GROUP heli. 42°04'35"N. 088°13'01"W. Change CHICAGO O'HARE ATCT freq from 135.925(N TWR) to 128.15(N TWR), 41°58'51"N, 87°54'23"W. 2 Jul 2009 - 17 Dec 2009 No Major Changes. 12 May 2005 - 17 Dec 2009 No Major Changes. AIRSPACE 12 May 2005 - 25 Sep 2008 No Major Changes. 20 Nov 2008 Change CHICAGO Class B freq from 128.45 to 133.625. 12 Mar 2009 - 17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

12 May 2005 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

12 May 2005 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

12 May 2005 - 17 Dec 2009 No Major Changes.

CHICAGO SECTIONAL 79th Edition, 22 Oct 2009

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OBSTRUCTIONS
22 Oct 2009 No Major Changes
17 Dec 2009 Add obst 1055'MSL(268'AGL)UC, 40°39'52"N, 90°44'58"W.
Add obst 1047'MSL(240'AGL)UC, 40°02'51"N, 86°49'03"W.
Add obst 1270'MSL (600'AGL)UC, 41°38'06"N, 87°02'59"W.
Add obst 955'MSL(255'AGL)UC, 41°19'16"N, 87°12'38"W.
Add obst 875'MSL(215'AGL)UC, 41°30'57"N, 87°59'55"W.
Add obst 1087'MSL(260'AGL)UC, 43°58'08"N, 89°14'37"W.
Add obst 901'MSL (268'AGL)UC, 40°48'02"N, 90°10'30"W.
Add obst 984'MSL(250'AGL)UC, 41°01'59"N, 89°13'51"W.
Add obst 773'MSL(260'AGL)UC, 40°48'28"N, 89°34'47"W.
Add obst 1078'MSL(300'AGL)UC, 41°18'40"N, 90°10'40"W.
Add obst 1017'MSL(260'AGL)UC, 40°53'36"N, 89°02'03"W.
Add obst 998'MSL(258'AGL)UC, 40°13'17"N, 88°57'55"W.
Add obst 1200'MSL(450'AGL)UC, 40°37'48"N, 88°46'53"W.
Add obst 795'MSL(298'AGL)UC, 40°13'44"N, 90°45'34"W.
Add obst 974'MSL(228'AGL)UC, 40°52'58"N, 89°07'42"W.
Add obst 1428'MSL(280'AGL)UC, 44°15'56"N, 89°25'00"W. Add obst 1295'MSL(299'AGL)UC, 40°17'18"N, 85°00'34"W.
Add obst 1054'MSL(310'AGL)UC, 40°12'26"N, 87°05'29"W.
Add obst 1119'MSL(260'AGL)UC, 40°56'34"N, 85°39'55"W.
Add obst 1220'MSL(330'AGL)UC, 41°15'05"N, 85°38'22"W. Add obst 1017'MSL(325'AGL)UC, 41°15'57"N, 86°44'10"W.
Add obst 945'MSL(250'AGL)ÚC, 41°04'17"N, 86°46'20"W,
Add obst 1105'MSL(260'AGL)UC, 40°39'20"N, 85°09'16"W. Add obst 1509'MSL(349'AGL)UC, 44°03'59"N, 92°01'14"W.
Add obst 1680'MSL(350'AGL)UC, 43°39'34"N, 92°17'59"W.
Add obst 1650'MSL(350'AGL)UC, 43°34'13"N, 91°36'42"W.
Add obst 1599'MSL (349'AGL)UC, 43°55'34"N, 91°26'10"W.
Add obst 1526'MSL(350'AGL)UC, 43°40'08"N, 91°24'15"W. Add obst 1508'MSL(350'AGL)UC, 43°33'02"N, 91°21'41"W.
Add obst 1559'MSL(349'AGL)UC, 44°06'11"N, 91°51'18"W.
Add obst 1598'MSL(350'AGL)UC, 43°52'58"N, 92°00'11"W. Add obst 1570'MSL(350'AGL)UC, 43°48'39"N, 91°38'41"W. Add windrill 5 " (4.60'W) 15 " (4.
Add windmill farm. 1142'UC is highest MSL, 40°38'31"N, 86°58'09"W.
Add windmill farm. 1111'UC is highest MSL, 41°06'48"N, 88°39'20"W.
Add windmill farm. 1230'UC is highest MSL, 40°41'52"N, 87°15'19"W.
Add windmill farm. 1163'UC is highest MSL, 40°56'36"N, 88°24'22"W.
AIRPORTS
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22 Oct 2009 No Major Change.

17 Dec 2009 Add CTAF 122.9 at FLYING FEATHERS arpt, 44°03'40"N, 88°11'42"W.

Delete KUNTZ arpt, 40°43'23"N, 88°52'00"W.

Delete MURKS arpt, 40°44'20"N, 90°22'50"W.

22 Oct 2009 No Major Changes.

17 Dec 2009 Shutdown KETTLE MORAINE NDB, 43°25'30"N, 88°07'38"W.

22 Oct 2009 No Major Changes.

17 Dec 2009 Revise PEORIA, IL Class E: That airspace extending upward from 700 feet above the surface bounded by a line beginning at 40°54′00″N, 89°59′00″W; to 40°53′31″N, 89°41′35″W; to 40°54′41″N, 89°35′28″W; to 40°52′16″N, 89°29′22″W; to 40°46′40″N, 89°27′38″W; to 40°44′01″N, 89°29′35″W; to 40°22′00″N, 89°32′00″W; to lat.40°26′00″N, 90°07′00″W; to 40°34′00″N, 90°12′00″W; to 40°47′00″N, 90°08′00″W; to the point of beginning.

Revise WINONA, MN Class E: That airspace extending upward from 700 feet above the surface within a 7-mile radius of Winona Municipal Airport-Max Conrad Field, and within 8 miles southwest and 4 miles northeast of the 121° bearing from the airport extending from the 7-mile radius to 21 miles southeast of the airport, excluding that airspace within the La Crosse, WI Class D airspace area.

Revise PLATTEVILLE, WI Class E: That airspace extending upward from 700 feet above the surface within a 7.4-mile radius of Platteville Municipal Airport and within 4 miles each side of the 145° bearing from the airport extending from the 7.4-mile radius to 10.2 miles southeast of the airport.

SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

CHICAGO TERMINAL AREA CHART 79th Edition, 22 Oct 2009

OBSTRUCTIONS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

AIRPORTS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

NAVAIDs

22 Oct 2009 - 17 Dec 2009 No Major Changes.

AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

CINCINNATI SECTIONAL 83rd Edition, 17 Dec 2009

OBSTRUCTIONS

17 Dec 2009 No Major Changes.

AIRPORTS

17 Dec 2009 No Major Changes.

NAVAIDs

17 Dec 2009 No Major Changes.

AIRSPACE

17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

17 Dec 2009 No Major Changes.

MISCELLANEOUS

17 Dec 2009 No Major Changes.

CINCINNATI TERMINAL AREA CHART 22nd Edition, 17 Dec 2009

OBSTRUCTIONS

17 Dec 2009 No Major Changes.

AIRPORTS

17 Dec 2009 No Major Changes.

NAVAIDs

17 Dec 2009 No Major Changes.

AIRSPACE

17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

17 Dec 2009 No Major Changes.

MISCELLANEOUS

17 Dec 2009 No Major Changes.

CLEVELAND TERMINAL AREA CHART 72nd Edition, 24 Sep 2009

OBSTRUCTIONS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

AIRPORTS

22 Oct 2009 Delete SHENANDOAH AIRPARK arpt, 40°55′12″N, 82°28′44″W. 17 Dec 2009 No Major Changes.

NAVAIDs

22 Oct 2009 - 17 Dec 2009 No Major Changes.

AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

DETROIT HELICOPTER ROUTE CHART 1st Edition, 4 Aug 2005

OBSTRUCTIONS 1 Sep 2005 No Major Changes. **27 Oct 2005** Add group obst 1009'MSL (388'AGL) UC, 42°03'58"N, 83° 23'40"W. **22 Dec 2005 – 12 Mar 2009** No Major Changes. 7 May 2009 Add obst 1293'MSL (330'AGL), 42°09'30"N, 84°01'31"W. 2 Jul 2009 - 17 Dec 2009 No Major Changes. **AIRPORTS** 1 Sep 2005 Add SELFRIDGE ANGB ATCT 340.7, 42°36′46″N, 82°49′54″W. 27 Oct 2005 Delete HYNES arpt, 42°36'39"N, 83°43'58"W. 22 Dec 2005 - 8 Jun 2006 No Major Changes 3 Aug 2006 Delete CTAF freq. 122.9 at SALINE arpt., 42°08′47″N, 83°47′31″W. 28 Sep 2006 – 10 May 2007 No Major Changes. 5 Jul 2007 Delete CARRIAGE LANE arpt, 42°27'52"N, 84°02'05"W. 30 Aug 2007 - 14 Feb 2008 No Major Changes. 10 Apr 2008 Delete FULLER heliport, 42°33'34"N, 83°10'40"W. **5 Jun 2008 – 31 Jul 2008** No Major Changes. **25 Sep 2008** Add SELFRIDGE ANGB ATCT freq 225.4, 42°36′30″N, 82°50′07″W. 20 Nov 2008 - 7 May 2009 No Major Changes. 2 Jul 2009 Delete INDEPENDENCE GREEN heliport, 42°28'12"N, 83°25'09"W. Delete COBO HALL heliport, 42°19'33"N, 83°02'52"W. 27 Aug 2009 - 17 Dec 2009 No Major Changes. **NAVAIDs** 1 Sep 2005 – 13 Apr 2006 No Major Changes. 8 Jun 2006 Delete LAUREL NDB, 42°14'38"N, 83°02'51"W. 3 Aug 2006 - 17 Dec 2009 No Major Changes. **AIRSPACE** 1 Sep 2005 - 15 Mar 2007 No Major Changes. 10 May 2007 Change DETROIT Class B freq from 124.9 to 127.5. 5 Jul 2007 - 17 Dec 2009 No Major Changes. SPECIAL USE AIRSPACE 1 Sep 2005 - 17 Dec 2009 No Major Changes. MILITARY TRAINING ROUTES

1 Sep 2005 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

1 Sep 2005 – 16 Feb 2006 No Major Changes. 13 Apr 2006 Change MEF 1^1 to 1^2 in quadrant $42^{\circ}00' - 42^{\circ}15'$ N, $83^{\circ}15' - 83^{\circ}30'$ W.

8 Jun 2006 - 17 Dec 2009 No Major Changes.

DETROIT SECTIONAL 79th Edition, 24 Sep 2009

OBSTRUCTIONS

22 Oct 2009 Add obst 1193'MSL (285'AGL)UC, 41°32'32"N, 80°51'34"W. Add obst 2540'MSL (260'AGL)UC, 41°53'03"N, 78°37'09"W. Add obst 956'MSL (203'AGL), 42°41'02"N, 78°54'26"W. Add obst 702'MSL (204'AGL), 42°57'23"N, 76°59'42"W. Add obst 3226'MSL (400'AGL)UC, 40°01'35"N, 78°48'07"W. Add obst 1001'MSL (394'AGL), 42°16'06"N, 82°16'30"W. 17 Dec 2009 Add obst 1394'MSL (297'AGL)UC, 40°00'24"N, 83°47'26"W. Add obst 1158'MSL (375'AGL)UC, 40°52'25"N, 84°29'02"W. Add obst 996'MSL (394'AGL), 42°16'58"N, 81°59'30"W. Add obst 900'MSL (255'AGL)UC, 43°46'10"N, 84°09'18"W. Add obst 1613'MSL(225'AGL)UC, 42°09'02"N, 78°45'46"W. Add obst 1529'MSL(260'AGL)UC, 42°42'18"N, 78°28'36"W. Add obst 1429'MSL(260'AGL)UC, 42°39'36"N, 78°26'06"W. Add obst 981'MSL (394'AGL), 42°28'11"N, 82°20'58"W. Add obst 1745'MSL(254'AGL)UC, 41°34'42"N, 79°24'55"W. Add obst 2925'MSL(410'AGL)UC, 40°18'05"N, 78°41'30"W.

AIRPORTS

22 Oct 2009 Delete ZEITLER arpt. 43°29'24"N. 84°21'54"W. Delete PEWANOGOWINK-BANKS arpt. 43°11′10″N. 83°54′04″W. Delete SHENANDOAH AIRPARK arpt, 40°55′12″N, 82°28′44″W. Delete MAYES arpt, 43°14'27"N, 84°52'48"W. 17 Dec 2009 Delete WINDSOR ATCT freq 236.6. 42°16'32"N. 82°57'20"W. Delete LONDON ATCT freq 236.6, 43°01'59"N, 81°09'04"W.

22 Oct 2009 - 17 Dec 2009 No Major Changes.

22 Oct 2009 Revise MANSFIELD, OH class E airspace. That airspace extending upward from 700 feet above the surface within a 6.9-mile radius of Mansfield Lahm Regional Airport and within a 6.3-mile radius of Galion Municipal Airport, and within a 6.3-mile radius of Shelby Community Airport, and within a 6.3-mile radius of Willard Airport, and within 4 miles each side of the 137° bearing from Mansfield Lahm Regional Airport extending from the 6.9-mile radius to 11.1 miles southeast of the airport, and within 4 miles each side of the 317° bearing from Mansfield Lahm Regional Airport extending from the 6.9-mile radius to 10.7 miles northwest of the airport, and within 6.1 miles each side of the Mansfield VORTAC 307° radial extending from the 6.9-mile radius to 13.3 miles northwest of the VORTAC, and within 4.4 miles each side of the Mansfield VORTAC 130° radial extending from the 6.9- mile radius to 13.8 miles southeast of the VORTAC

17 Dec 2009 Add SOUTHERN ONTARIO LOW LEVEL CONTROL AREA. The airspace above 2500' to 6500' within the area bounded by a line beginning at: 43°28'13"N, 82°11'02"W Canada/USA boundary to 44°41'37"N, 78°49'42"W to 45°20'55"N, 78°06'29"W to 45°43'31"N, 77°57'20"W to 45°50'35"N, 77°52′01″W to 46°06′45″N, 77°25′45″W to 46°08′00″N, 77°15′00″W to 45°57′40″N, 76°55′40″W to 45°50'15"N, 76°16'00"W to 44°13'17"N, 76°11'30"W thence west along the Canada/USA boundary to 44°03′29″N, 76°28′00″W Canada/USA boundary to 44°07′28″N, 76°43′06″W thence counter clockwise along the arc of a circle of 35 miles radius centered on 44°07′08″N, 77°31′41″W to 44°27′11″N, 76°51′46″W to 44°17′04″N, 77°36′46″W to 44°02′24″N, 78°19′46″W thence counter clockwise along the arc of a circle of 35 miles radius centered on 44°07′08″N. 77°31′41″W to 43°38′05″N. 77°58′39″W thence west along the Canada/USA boundary to 43°28'13"N, 82°11'02"W Canada/USA boundary to point

The airspace above 3500' within the area bounded by a line beginning at 43°28'13"N,82°11'02"W thence north west along the Canada/USA boundary to 46°50'03"N,84°50'20"W thence clockwise along the arc of a circle of 25 miles radius centered on 46°29'06"N,84°30'34"W to 46°54'02"N, 84°33'00"W to 47°12'42"N, 80°50'02"W thence clockwise along the arc of a circle of 35 miles radius centered on 46°37'45"N,80°47'54"W to 47°11'29"N, 80°34'23"W to 46°55'24"N, 79°11'54"W thence clockwise along the arc of a circle of 35 miles radius centered on 46°21′50″N,79°26′11″W to 46°30′12″N, 78°37′04″W to 46°26′41″N, 77°15′00″W to 46°08′00″N,77°15′00″W to 46°06′45″N, 77°25′45″W to 45°50′35″N,77°52′01″W to 45°43′31″N,77°57′20″W to 45°20′55″N, 78°06′29″W to 44°41′37″N, 78°49′42″W to 44°38′16″N,78°59′27″W thence counter clockwise along the arc of a circle of 65 miles radius centered on 43°39'29"N, 79°37'54"W to 43°53'03"N, 81°05'36"W to 43°28'13"N,82°11'02"W Canada/USA boundary to point of beginning.

SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

22 Oct 2009 No Major Changes.

17 Dec 2009 Delete RP* at GROVE CITY arpt, 41°08'45"N, 80°10'03"W.

DETROIT TERMINAL AREA CHART 72nd Edition, 24 Sep 2009

OBSTRUCTIONS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

AIRPORTS

22 Oct 2009 No Major Changes.

17 Dec 2009 Delete WINDSOR ATCT freg 236.6, 42°16'32"N, 82°57'20"W.

NAVAIDS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

AIRSPACE

22 Oct 2009 No Major Changes.

17 Dec 2009 Add SOUTHERN ONTARIO LOW LEVEL CONTROL AREA. The airspace above 2500' to 6500' within the area bounded by a line beginning at 43°28'13"N, 82°11'02"W Canada/USA boundary to 44°41'37"N, 78°49'42"W to 45°20'55"N, 78°06'29"W to 45°43'31"N, 77°57'20"W to 45°50'35"N, 77°52'01"W to 46°06'45"N, 77°25'45"W to 46°08'00"N, 77°15'00"W to 45°57'40"N, 76°55'40"W to 45°50'15"N, 76°16'00"W to 44°13'17"N, 76°11'30"W thence west along the Canada/USA boundary to 44°07'28"N, 76°28'00'W Canada/USA boundary to 44°07'08"N, 76°43'06"W thence counter clockwise along the arc of a circle of 35 miles radius centered on 44°07'08"N, 77°31'41"W to 44°27'11"N, 76°51'46"W to 44°17'04"N, 77°36'46"W to 44°07'08"N, 77°31'41"W to 49°38'05"N, 77°58'39"W thence west along the Canada/USA boundary to 43°28'13"N, 82°11'02"W Canada/USA boundary to point of beginning.

SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

GREEN BAY SECTIONAL 79th Edition, 17 Dec 2009

OBSTRUCTIONS

17 Dec 2009 No Major Changes.

AIRPORTS

17 Dec 2009 No Major Changes.

NAVAIDs

17 Dec 2009 No Major Changes.

AIRSPACE

17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

17 Dec 2009 No Major Changes.

MISCELLANEOUS

17 Dec 2009 No Major Changes.

KANSAS CITY SECTIONAL 83rd Edition, 19 Nov 2009

OBSTRUCTIONS

17 Dec 2009 Add obst 1174'MSL (305'AGL)UC, 36°05'01"N, 96°35'42"W. Change to group obst 1178'MSL (335'AGL)UC, 37°01'30"N, 94°45'08"W. Add obst 1460'MSL (280'AGL), 36°32'20"N, 93°34'31"W. Add obst 1624'MSL (339'AGL)UC, 36°02'15"N, 93°55'05"W. Add obst 1591'MSL (315'AGL)UC, 36°53'31"N, 93°34'44"W. Add obst 1230'MSL (320'AGL)UC, 40°11'57"N, 95°02'00"W.

AIRPORTS

17 Dec 2009 Delete TERAMIRANDA arpt, 36°36′30″N, 94°52′21″W.

NAVAIDs

17 Dec 2009 No Major Changes.

AIRSPACE

including 3.600 feet MSL within a 4.9-mile radius of Forbes Field Airport and within 2.2 miles each side of the RIPLY LOM 317° bearing extending from the 4.9-mile radius to 5.3 miles northwest of the airport and within 1.8 miles each side of the Forbes Field Airport ILS Localizer southeast course extending from the 4.9-mile radius to 0.9 miles southeast of the RIPLY LOM. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective dates and times will thereafter be continuously published in the Airport/Facility Directory. Revise TOPEKA, KS Class E: That airspace within a 4.9-mile radius of Forbes Field Airport, and within 2.2 miles each side of the RIPLY LOM 317° bearing extending from the 4.9-mile radius to 5.3 miles northwest of the airport and within 1.8 miles each side of the Forbes Field Airport ILS Localizer southeast course extending from the 4.9-mile radius to 0.9 miles southeast of the RIPLY LOM. That airspace extending upward from 700 feet above the surface within a 7.4-mile radius of Forbes Field Airport, and within 3.1 miles each side of the Forbes Field Airport ILS localizer course extending from the 7.4-mile radius to 13 miles southeast of the airport, and within 3.5 miles each side of the Forbes Field Airport ILS localizer course extending from the 7.4-mile radius to 13 miles northwest of the airport. Revise ST. LOUIS, MO Class E: That airspace extending upward from 700 feet above the surface within a 7.1-mile radius of Lambert-St. Louis International Airport, and within 4 miles southeast and 7 miles northwest of the Lambert- St. Louis International Airport Runway 24 ILS localizer course extending from the airport to 10.5 miles northeast of the ZUMAY LOM, and within 4 miles southwest and 7.9 miles northeast of the Lambert- St. Louis International Airport Runway 12R ILS localizer course extending from the airport to 10.5 miles northwest of the OBLIO LOM, and within 4 miles southwest and 7.9 miles northeast of the Lambert- St. Louis International Airport Runway 30L ILS localizer course extending from the airport to 8.7 miles southeast of the airport, and within a 6.8-mile radius of Spirit of St. Louis Airport, and within 3.9 miles each side of the 258° bearing from Spirit of St. Louis Airport extending from the 6.8-mile radius of Spirit of St. Louis Airport to 10.6 miles west of the airport, and within 2.6 miles each side of the 098° radial of the Foristell VORTAC extending from the 6.8-mile radius of Spirit of St. Louis

Airport to 8.3 miles west of the airport, and within a 6.4° mile radius of St. Charles County Smartt Airport, and within a 6.9-mile radius of St. Louis Regional Airport, and within 4 miles each side of the 014° bearing from the Civic Memorial NDB extending from the 6.9-mile radius of St. Louis Regional Airport to 7 miles north of the airport, and within 4.4 miles each side of the 190° radial of the St. Louis VORTAC

extending from 2 miles south of the VORTAC to 22.1 miles south of the VORTAC.

17 Dec 2009 Revise TOPEKA, KS Class D: That airspace extending upward from the surface to and

SPECIAL USE AIRSPACE

17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

17 Dec 2009 No Major Changes.

MISCELLANEOUS

17 Dec 2009 No Major Changes.

LAKE HURON SECTIONAL 78th Edition, 24 Sep 2009

OBSTRUCTIONS

22 Oct 2009 No Major Changes.

17 Dec 2009 Add obst 881 MSL (255'AGL)UC, 45°31'39"N, 84°08'31"W. Add obst 1009'MSL (230'AGL), 46°33'26"N, 84°19'23"W.

AIRPORTS

22 Oct 2009 No Major Changes.

17 Dec 2009 Deleté NEW LOWELL arpt, 44°23'15"N, 79°56'36"W. Delete SAULT STE MARIE ATCT 236.6, 46°29'06"N, 84°30'34"W. Wawa, ON VOR.

NAVAIDs

22 Oct 2009 - 17 Dec 2009 No Major Changes.

AIRSPACE

22 Oct 2009 No Major Changes.

miles radius centered on the following: 47°55″02″N, 84°49′23″W. Add SOUTHERN ONTARIO LOW LEVEL CONTROL AREA. The airspace above 2500′ to 6500′ within the area bounded by a line beginning at: 43°28′13″N, 82°11′02″W Canada/USA boundary to 44°41′37″N, 78°49′42″W to 45°20′55″N, 78°06′29″W to 45°43′31″N, 77°57′20″W to 45°50′35″N, 77°52′01″W to 46°06′45″N, 77°25′45″W to 46°08′00″N, 77°15′00″W to 45°50′35″N, 76°55′40″W to 45°50′15″N, 77°52′01″W to 46°06′45″N, 77°25′45″W to 46°08′00″N, 77°15′00″W to 45°57′40″N, 76°55′40″W to 45°50′15″N, 76°28′00″W Canada/USA boundary to 44°03′28″N, 76°43′06″W thence counter-clockwise along the arc of a circle of 35 miles radius centered on 44°07′08″N, 77°31′41″W to 44°27′11″N, 76°51′46″W to 44°13′17″N, 77°36′46″W to 44°07′08″N, 77°31′41″W to 44°27′11″N, 76°51′46″W to 44°17′04″N, 77°36′46″W to 44°07′08″N, 77°31′41″W to 43°38′05″N, 77°58′39″W thence west along the Canada/USA boundary to 43°28′13″N, 82°11′02″W Canada/USA boundary to point of beginning. The airspace above 6500′ within the area bounded by a line beginning at 43°28′13″N, 82°11′02″W Canada/USA boundary to 43°35′04″N, 81°05′37″W thence counter-clockwise along the arc of a circle of 65 miles radius centered on 43°39′29″N, 79°37′54″W to 42°34′30″N, 79°36′29″W thence west along the Canada/USA boundary to 43°28′13″N, 82°11′02″W Canada/USA boundary to 43°38′03″N, 82°11′02″W Canada/USA boundary to point of beginning. The airspace above 6500′ within the area bounded by a line beginning at 43°34′30″N, 79°36′29″W Canada/USA boundary thence clockwise along the arc of a circle of 65 miles centered on 43°39′29″N, 79°37′54″W to 44°04′07″N, 78°14′48″W to 44°02′25″N, 78°19′46″W thence counter-clockwise along the arc of a circle of 65 miles centered on 43°39′29″N, 79°37′54″W to 44°04′07″N, 78°14′48″W to 44°02′25″N, 78°19′46″W thence counter-clockwise along the arc of a circle of 65 miles centered on 43°38′05″N, 77°58′39″W

17 Dec 2009 Add CONTROL AREA EXTENSION. The airspace within the area bounded by a circle of 25

The airspace above 6,500′ within the area bounded by a line beginning at: 44°38′17″N, 78°59′27″W to 44°41′37″N, 78°49′42″W to 45°20′55″N, 78°06′29″W to 45°43′31″N, 77°57′20″W to 45°50′35″N, 77°52′01″W to 46°06′45″N, 77°25′45″W to 46°08′00″N, 77°15′00″W to 45°57′40″N, 76°55′40″W to 45°50′45″N, 76°51′40″N, 76°55′40″N to 45°50′45″N, 76°11′30″W thence west along the Canada/USA boundary to 44°03′29″N, 76°28′00″W Canada/USA boundary to 44°07′28″N, 76°43′06″W thence counter-clockwise along the arc of a circle of 35 miles radius centered on 44°07′08″N, 77°31′41″W to 44°27′11″N, 76°51′46″W to 44°17′04″N, 77°36′46″W to 44°04′07″N, 78°14′47″W thence counter-clockwise along the arc of a circle of 65 miles radius centered on 43°39′29″N, 79°37′54″W to 44°38′16″N, 78°59′27″W to paint of beginning

thence west along the Canada/ USA boundary to 42°34'30"°36'29" Canada/USA boundary to point of

The airspace above 17000' within the area bounded by a line beginning at: 43°38'05"N, 77°58'39"W Canada/USA boundary thence clockwise along the arc of a circle of 35 miles radius centered on 44°07′08″N, 77°31′41″W to 44°02′24″N, 78°19′46″W to 44°17′04″N, 77°36′46″W to 44°27′11″N, $76^{\circ}51'46''\!M$ thence clockwise along the arc of a circle of 35 miles radius centered on $44^{\circ}07'08''\!N$, $77^{\circ}31'41''\!M$ to $44^{\circ}07'28''\!N$, $76^{\circ}43'06''\!M$ to $44^{\circ}03'29''\!N$, $76^{\circ}28'00''\!M$ thence west along the Canada/USA boundary to 43°38′05″N, 77°58′39″W Canada/USA boundary to point of beginning The airspace above 3500' within the area bounded by a line beginning at 43°28'13"N, 82°11'02"W thence north west along the Canada/USA boundary to 46°50′03″N, 84°50′20″W thence clockwise along the arc of a circle of 25 miles radius centered on 46°29'06"N, 84°30'34"W to 46°54'02"N, 84°33'00"W to 47°12′42″N, 80°50′02″W thence clockwise along the arc of a circle of 35 miles radius centered on 46°37′45″N, 80°47′54″W to 47°11′29″N, 80°34′23″W to 46°55′24″N, 79°11′54″W thence clockwise along the arc of a circle of 35 miles radius centered on 46°21′50″N, 79°26′11″W to 46°30′12″N, 78°37′04′W to 46°26′41″N, 77°15′00″W to 46°08′00″N, 77°15′00″W to 46°06′45″N, 77°25′45″W to 45°50′35″N, 77°52′01″W to 45°43′31″N, 77°57′20″W to 45°20′55″N, 78°06′29″W to 44°41′37″N, 78°49'42"W to 44°38'16"N, 78°59'27"W thence counter-clockwise along the arc of a circle of 65 miles radius centered on 43°39′29″N, 79°37′54″W to 43°53′03″N, 81°05′36″W to 43°28′13″N, 82°11′02″W Canada/USA boundary to point of beginning. The airspace above 3500' to 6500' within the area bounded by a line beginning at $43^{\circ}53'03''N$,

The airspace above 3500' to 6500' within the area bounded by a line beginning at 43°53'03"N, 81°05'37"W thence clockwise along the arc of a circle of 65 miles radius centered on 43°39'29"N, 79°37'54"W to 44°38'16"N, 78°59'28"W to 43°53'03"N, 81°05'37"W to point of beginning.

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SPECIAL USE AIRSPACE 22 Oct 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MINNEAPOLIS-ST. PAUL TERMINAL AREA CHART 72nd Edition, 2 Jul 2009

OBSTRUCTIONS

2 Jul 2009 - 17 Dec 2009 No Major Changes.

AIRPORTS

2 Jul 2009 - 17 Dec 2009 No Major Changes.

NAVAIDs

2 Jul 2009 - 17 Dec 2009 No Major Changes.

AIRSPACI

2 Jul 2009 - 27 Aug 2009 No Major Changes.

22 Oct 2009 Revise MINNEAPOLIS, MN. Class E. That airspace extending upward from 700 feet above the surface within a 20-mile radius of the Minneapolis-St. Paul International Airport (Wold-Chamberlain) Airport DME antenna, and within a 6.5-mile radius of the Anoka County-Blaine Airport (Janes Field), and within 4 miles each side of the 001° bearing from the Anoka County-Blaine Airport (Janes Field) extending from the 6.5-mile radius to 9.9 miles north of the airport, and within a 6.3-mile radius of the Lake Elmo Airport, and within a 6.4-mile radius of the Airlake Airport, and within 3.3 miles each side of the 084° bearing from the Farmington VORTAC extending from the 6.4-mile radius to 14.8 miles east of the Airlake Airport.

17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

2 Jul 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

2 Jul 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

2 Jul 2009 - 17 Dec 2009 No Major Changes.

PITTSBURGH TERMINAL AREA CHART 72nd Edition, 24 Sep 2009

OBSTRUCTIONS

22 Oct 2009 No Major Changes.

17 Dec 2009 Add obst 1154' MSL (328'AGL)UC, 40°28'38"N, 79°53'01"W.

22 Oct 2009 - 17 Dec 2009 No Major Changes.

NAVAIDs

22 Oct 2009 - 17 Dec 2009 No Major Changes.

AIRSPACE 22 Oct 2009 – 17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

ST. LOUIS SECTIONAL 81st Edition, 17 Dec 2009

OBSTRUCTIONS

17 Dec 2009 No Major Changes.

AIRPORTS

17 Dec 2009 No Major Changes.

NAVAIDs

17 Dec 2009 No Major Changes.

AIRSPACE

17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

17 Dec 2009 No Major Changes.

MISCELLANEOUS

17 Dec 2009 No Major Changes.

ST. LOUIS TERMINAL AREA CHART 73rd Edition, 17 Dec 2009

OBSTRUCTIONS

17 Dec 2009 No Major Changes.

AIRPORTS

17 Dec 2009 No Major Changes.

17 Dec 2009 No Major Changes.

AIRSPACE

17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

17 Dec 2009 No Major Changes.

MISCELLANEOUS

17 Dec 2009 No Major Changes.

TWIN CITIES SECTIONAL 78th Edition, 2 Jul 2009

OBSTRUCTIONS

2 Jul 2009 No Major Changes.

27 Aug 2009 Add windmill farm. 2608' is highest MSL, 45°57'36"N, 98°58'15"W.

22 Oct 2009 Add obst 1580'MSL (305'AGL)UC, 45°20'57"N, 95°15'14"W.

Add obst 1981'MSL (295'AGL)UC, 46°23'06"N, 100°37'17"W. Add obst 2414'MSL (340'AGL)UC, 48°52'37"N, 100°03'24"W. Add obst 2514'MSL (340'AGL)UC, 48°56'57"N, 100°03'14"W.

Add obst 2361'MSL (260'AGL)UC, 47°34'40"N, 100°36'13"W.

Add obst 2237'MSL (260'AGL)UC, 47°24'38"N, 100°35'22"W. Add obst 2238'MSL (260'AGL)UC, 47°32'29"N, 100°14'40"W.

Add obst 2334'MSL (310'AGL)UC, 47°23'02"N, 100°16'57"W. Add windmill farm. 2118' is highest MSL, 48°30'23"N, 99°54'54"W

17 Dec 2009 Add obst 1565'MSL (305'AGL)UC, 47°44'50"N, 95°46'57"W.

Add obst 1665'MSL (305'AGL)UC, $47^{\circ}49'41''N$, $93^{\circ}09'55''W$. Add obst 1450'MSL (305'AGL)UC, $48^{\circ}24'44''N$, $96^{\circ}10'04''W$.

Add obst 1763'MSL (469'AGL)UC, 46°53'17"N, 92°30'38"W.

Add obst 1765'MSL (350'AGL)UC, 47°39'05"N, 92°51'55"W. Add obst 1504'MSL (350'AGL)UC, 45°32'56"N, 96°19'27"W.

2 Jul 2009 - 22 Oct 2009 No Major Changes.

17 Dec 2009 Delete PRUETZ arpt, 46°17′19″N, 98°56′31″W.

Change CTAF 126.05 to 132.4 at ANOKA COUNTY-BLAINE arpt 45°08'41"N, 93°12'36"W.

NAVAIDs

2 Jul 2009 - 17 Dec 2009 No Major Changes.

2 Jul 2009 - 27 Aug 2009 No Major Changes.

22 Oct 2009 Revise MINNEAPOLIŚ, MN. Class E. That airspace extending upward from 700 feet above the surface within a 20-mile radius of the Minneapolis-St. Paul International Airport (Wold-Chamberlain) Airport DME antenna, and within a 6.5-mile radius of the Anoka County-Blaine Airport (Janes Field), and within 4 miles each side of the 001° bearing from the Anoka County-Blaine Airport (Janes Field) extending from the 6.5-mile radius to 9.9 miles north of the airport, and within a 6.3-mile radius of the Lake Elmo Airport, and within a 6.4-mile radius of the Airlake Airport, and within 3.3 miles each side of the 084° bearing from the Farmington VORTAC extending from the 6.4-mile radius to 14.8 miles east of the Airlake Airport

17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

2 Jul 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

2 Jul 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

2 Jul 2009 – 17 Dec 2009 No Major Changes. 17 Dec 2009 Change MEF 2^5 to 2^7 in quadrant $45^\circ30'00''N$, $99^\circ00'00''W$. Change MEF 2^7 to 2^8 in quadrant $45^\circ30'00''N$, $98^\circ30'00''W$. Change MEF 2^2 to 2^3 in quadrant $48^\circ00'00''N$, $99^\circ30'00''W$.

SUPPLEMENTAL COMMUNICATION REFERENCE

Contained within this tabulation, and listed alphabetically by airport name, are all private—use airports charted on the U.S. IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility.

	STAT	

FACILITY NAME	CHART & PANEL
Frankfort, IL (LL4Ø)	L-28H
Chicago App/Dep Con 133.1 285.6	
Glasgow Industrial, MT (Ø7MT)	H-1E, 2F, L-13D
Salt Lake Center App/Dep Con 126.85 305.2	
USAF Academy Bullseye Aux Airstrip, CO (CO9Ø)	L-10F
ASOS 118.325	
West Kentucky Airpark, KY (5KY3)	L-16I
Memphis Center App/Dep Con 133.65 292.15	
William P Gwinn, FL (Ø6FA)	H-8I, L-23C
Gwinn Tower 120.4 279.25 (Mon-Fri 1300-2100Z‡)	
Gnd Con 121.65 279.25	

AC	CANADA CANADA	CHART & PANE
	Abbotsford, BC (CYXX)	H-1B, L-12
-	ATIS 119.8 (1500–0700Z‡)	11 15, 2 12
	Victoria Trml App/Dep Con 132.7 (Avbl on ground) 290.8	
	Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500–0700Z‡) Gnd Con 121.8	
	MF 119.4 295.0 (0700–1500Z‡) (Shape irregular to 4500')	
A	Amos/Magny, QC (CYEY)	H-11I
-	Montreal Center App/Dep Con 125.9	
Α	Atikokan Muni, ON (CYIB)	L-14
-	MF 122.3 (5 NM to 4500' No ground station)	
В	Barrie-Orillia (Lake Simcoe Rgnl), ON (CYLS)	H-11B, L-31
_	AWOS 122.55 (Pvt)	,
	Toronto Center App/Dep Con 124.025	
В	Bar River, ON (CPF2)	L-310
	Toronto Center App/Dep Con 132.65	
В	Bathurst, NB (CZBF)	L-32
	Moncton Center App/Dep Con 134.25	
В	Boundary Bay, BC (CZBB)	H-1B. L-1
	ATIS 125.5 (1500-0700Z‡)	•
	Vancouver App/Dep Con 132.3 363.8	
	Tower 118.1 (Inner) 127.6 (Outer) (1500-0700Z‡) Gnd Con 124.3	
	MF 118.1 (0700–1500Z‡ to 2000'. Vancouver Trml 125.2 above 2000'. Shape irreg	ular to 2500'.)
В	Brampton, ON (CNC3)	L-31I
	Toronto Trml App/Dep Con 119.3 253.1	
В	Brandon Muni, MB (CYBR)	H-2I
	Winnipeg Center App/Dep Con 132.25 285.4	
	MF 122.1 (5 NM to 4000')	
В	Brantford, ON (CYFD)	L-31
	Toronto Trml App/Dep Con 128.27	
В	Brockville-Thousand Islands Rgnl Tackaberry, ON (CNL3)	L-32
	Montreal Center App/Dep Con 134.675	
В	Bromont, QC (CZBM)	L-320
	Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400')	
В	Burlington Airpark, ON (CZBA)	L-311
	Toronto Center App/Dep Con 119.3 253.1	
C	Castlegar, BC (CYCG)	H-1
	Vancouver Center App/Dep Con 134.2 227.3	
	MF 122.1 (5 NM to 6500')	
C	Centralia/James T. Fld Muni, ON (CYCE)	H-10G, 11B, L-31I
	Toronto Center App/Dep Con 135.30	
C	Charlottetown, PE (CYYG)	H-11E, L-32
	Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200')	
C	Chatham-Kent, ON (CNZ3)	H-10G, L-300
	Cleveland Center App/Dep Con 132.25	

I

COLLITY NAME Collingwood, ON (CNY3)	CHART & PANE H-11B, L-31D
Toronto Center App/Dep Con 124.02	H-11B, L-31L
Cornwall Rgnl, ON (CYCC)	L-32G
Boston Center App/Dep Con 135.25 377.1	2 323
Cranbrook/Canadian Rockies Intl, BC (CYXC)	H-1C
Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100')	
lebert, NS (CCQ3)	H-11E, L-32J
Halifax Trml App/Dep Con 119.2	
ligby, NS (CYID)	L-32J
Moncton Center App/Dep Con 123.9	
Ownsview, ON (CYZD)	H-11B, L-31E
Toronto Center App Con 133.4	
Toronto Center Dep Con 133.4	
MF 126.2 (1300–2300Z‡, 3 NM to 1700′) Drummondville, QC (CSC3)	L-32H
Montreal Center App/Dep Con 132.35	L=3211
arlton (Timiskaming Rgnl), ON (CYXR)	H-11B
MF 122.0 (5 NM to 3800')	11 110
AWOS 128.6	
illiot Lake Muni, ON (CYEL)	L-31C
Toronto Center App/Dep Con 135.4	
Fort Frances Muni, ON (CYAG)	L-14H
Minneapolis Center App/Dep Con 120.9	
redericton Intl, NB (CYFC)	H-11E, L-32I
ATIS 127.55	
Moncton Center App/Dep Con 124.3 135.5 270.8	
Tower 119.0 (1200–2000Z, DT 1100–1900Z) Gnd Con 121.7 (Ltd hrs)	
MF 119.0 (2000–1200Z, DT 1900–1100Z 5 NM to 3500')	
Goderich, ON (CYGD)	H-11B, L-31D
Toronto Center App/Dep 135.3 266.3	H 445 L 221
ireenwood, NS (CYZX) ATIS 128.85 244.3 (1100-0000Z‡)	H-11E, L-32J
App/Dep Con 120.6 335.9 Tower 119.5 126.2 236.6 324.3	
Gnd Con 133.75 289.4 Clnc Del 128.05 283.9	
Grimsby Air Park, ON (CNZ8)	L-31E
Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475	
lalifax/Shearwater, NS (CYAW)	H-11E, L-32J
ATIS 129.175 (Ltd hrs)	
App/Dep Con 119.2 Tower 119.0 126.2 340.2 360.2 (Ltd hrs)	
Gnd Con 121.7 250.1	
lalifax/Stanfield Intl, NS (CYHZ)	H-11E, L-32J
ATIS 121.0	
Moncton Center App/Dep Con 118.7 119.2 128.55 135.3 225.2 363.8	
Tower 118.4 236.6 Gnd Con 121.9 275.8 Clnc Del 123.95	
Apron Advisory 122.125	II 40II 44B I 44B
lamilton, ON (CYHM)	H-10H, 11B, L-11B
ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0	
Gnd Con 121.6	
ingston, ON (CYGK)	H-11C, L-31E, 32F
Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡)	11 110, 2 012, 021
MF 122.5 (1115–0400Z‡ 5 NM to 3300')	
(itchener/Waterloo, ON (CYKF)	H-11B, L-31D
ATIS 125.1 (1200-0400Z‡)	,
Toronto Trml App/Dep Con 128.275	
Waterloo Tower 126.0 118.55 (1200-0400Z‡) Gnd Con 121.8	
MF 126.0 (0400-1200Z‡ 5 NM to 4000')	
achute, QC (CSE4)	L-32G
Montreal Center App Con 124.65 132.85 268.3	
Montreal Center Dep Con 132.85 268.3	
a Tuque, QC (CYLQ)	H-11C
Montreal Center App/Dep Con 134.5	
angley, BC (CYNJ)	L-1E
ATIS 124.5 (1630–0230Z, DT 1530–0330Z)	
Victoria Trml 132.7 290.8 Tower 119.0 (1630–0230Z, DT 1530–0330Z)	
Gnd Con 121.9 MF 119.0 (0230–1630Z, DT 0330–1530Z 3 NM to 1900')	

Leamington, ON (CLM2)	CHART & PANE L-30
Cleveland Center App/Dep Con 132.45	
Lethbridge, AB (CYQL)	H-1I
ATIS 124.4 (1300-0545Z‡)	
Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000')	
Lindsay, ON (CNF4)	L-31E, L-32
Toronto Center App/Dep 134.25	
Liverpool/South Shore Rgnl, NS (CYAU)	L-32
Moncton Center App/Dep Con 123.9	
London, ON (CYXU)	H-10G, 11E
ATIS 127.8 (1120-0345Z‡)	L-30G, 31
Toronto Center App/Dep 135.3 135.625	
Tower 119.4 125.65 (1120-0345Z‡) Gnd Con 121.9	
MF 119.4 (0345–1120Z‡ 5 NM to 3000')	
Manitowaning/Manitoulin East Muni, ON (CYEM)	L-31
Toronto Center App/Dep 135.4 260.9	
Maniwaki, QC (CYMW)	L-32
Montreal Center App/Dep Con 126.57	
Mascouche, QC (CSK3)	L-32
MF 122.35 (5 NM to 2500'. No gnd station. Excluding the portion S of the	
N shore of Riviere des Milles-lles and 1 NM around Lac Agile Mascouche arpt.)	
Medicine Hat, AB (CYXH)	H-1
AWOS 124.875 (0345–1245Z‡)	
MF 122.2 (1245–0345Z‡ 5 NM to 5400')	
Midland/Huronia, ON (CYEE)	L-31
Toronto Center App/Dep 124.025	
Miramichi, NB (CYCH)	H-11E, L-32
Moncton Center App/Dep Con 123.7	
Moncton/Greater Moncton Intl, NB (CYQM)	H-11E, L-32
ATIS 128.65	
App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 275.8	
Apron Advisory 122.075	
Mont-Laurier, QC (CSD4)	L-320
Montreal Center App/Dep Con 126.57	
Montreal Intl (Mirabel), QC (CYMX)	H-11C, 12K, L-32
ATIS 125.7	
Montreal Center App Con 124.65 132.85 268.3	
Montreal Center App Con 124.65 132.85 268.3 Montreal Dep Con 132.85	
Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15	
Montreal Dep Con 132.85	H-11C, 12K, L-32
Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15	H-11C, 12K, L-32
Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3	H-11C, 12K, L-32
Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7	H-11C, 12K, L-32
Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3	H-11C, 12K, L-32
Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075	H-11C, 12K, L-32
Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE)	
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Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/ST-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15	H-11C, L-32
Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA)	H-11C, L-32
Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, DN (CYQA) AWOS 124.575	H-11C, L-32 H-11B, L-31
Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900')	H-11C, L-32 H-11B, L-31 H-1B, L-1
Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Nanaimo, BC (CYCD)	H-11C, L-32 H-11B, L-31 H-1B, L-1
Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Nanaimo, BC (CYCCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500')	H-11C, L-32 H-11B, L-31 H-1B, L-1
Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Nanaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') North Bay, QN (CYYB)	H-11C, L-32 H-11B, L-31 H-1B, L-1
Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intt, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Nanaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') North Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡)	H-11C, L-32 H-11B, L-31 H-1B, L-1
Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Nanaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') North Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000')	H-11C, L-32 H-11B, L-31 H-18, L-31
Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Nanaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') North Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000') Oshawa, QN (CYOO)	H-11C, L-32 H-11B, L-31 H-1B, L-1
Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Nanaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') North Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000') Oshawa, QN (CYOO) ATIS 125.675 (1130-0330Z‡)	H-11C, L-32 H-11B, L-31 H-1B, L-1
Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Nanaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') North Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000') Oshawa, QN (CYOO)	H-11C, 12K, L-32 H-11C, L-32 H-11B, L-31 H-1B, L-1 L-31

CILITY NAME	CHART & PANEL
Ottawa/Carp, ON (CYRP)	L-31E, 32F
ATIS 121.15	
Ottawa Trml App/Dep Con 128.175 252.5	H-11C, L-32G
Ottawa/Gatineau, QC (CYND) Ottawa Trml App/Dep Con 127.7 128.175 252.5	H-11C, L-32G
MF 122.3 (5 NM shape irregular to 2500')	
VFR Advisory Ottawa Trml 127.7	
Ottawa/MacDonald-Cartier Intl, ON (CYOW)	L-110
ATIS 121.15	L-110
Ottawa App Con 135.15 Tower 118.8 120.1 341.3	
Gnd Con 121.9 Clnc Del 119.4	
Ottawa Dep Con 128.175	
Owen Sound/Billy Bishop Rgnl, ON (CYOS)	L-31D
Toronto Center App/Dep 132.575 290.6	
Pelee Island, ON (CYPT)	L-30F
Cleveland Center App/Dep Con 126.35 360.0	
Pembroke, ON (CYTA)	H-11C, L-31E, 32F
Montreal Center App/Dep Con 135.2	
Petawawa Advisory 126.4 250.1 (Mon-Fri 1300-2130Z‡, OT PPR)	
Penticton, BC (CYYF)	H-1E
Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100')	
Peterborough, ON (CYPQ)	H-11B, L-31E, 32F
AWOS 126.925	
Toronto Center App/Dep 134.25	
Pincher Creek, AB (CZPC)	H-10
Edmonton Center App/Dep Con 132.75 265.2	
Pitt Meadows, BC (CYPK)	L-1E
ATIS 125.0 (1500-0700Z‡)	
Vancouver Center App Con 128.6 352.7 (Outer)	
Pitt Tower 126.3 (1500–0700Z‡) Gnd Con 123.8	
Vancouver Center Dep Con 132.3 363.8 (South)	
MF 126.3 (0700–1500Z‡) (3NM to 2500')	
Quebec/Jean Lesage Intl, QC (CYQB)	H-11D, L-32H
ATIS 134.6	
Montreal Center App/Dep Con 124.0 127.85 135.025 270.9 322.8	
(185.65 Quebec Twr VFR acft at or below 3000') Tower 118.65 236.6	
Gnd Con 121.9 250.0	
Riviere Du Loup, QC (CYRI)	H-11C
AWOS 122.025 (Pvt) Montreal Contar Ann (Don Con 125 1 200 6	
Montreal Center App/Dep Con 125.1 299.6 Rouyn Noranda, QC (CYUY)	H-11E
Montreal Center App/Dep Con 125.9	U-TIE
MF 122.2 (5 NM to 4000')	
Saint John, NB (CYSJ)	H-11E, L-32.
Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400')	11 111, 2 02.
Sarnia (Chris Hadfield), ON (CYZR)	H-10G, 11B, L-30F
Toronto Center 134.375	11 100, 110, 2 001
Sault Ste Marie, ON (CYAM)	H-2K, L-31E
ATIS 133.05 (1300–0100Z‡)	11 211, 2 012
Toronto Center App/Dep Con 132.65 344.5	
Tower 118.8 (1300–0100Z‡) Gnd Con 121.7	
MF 118.8 (0100–1300Z‡ 5 NM irregular shape to 3000')	
Sherbrooke, QC (CYAM)	H-11D, L-32h
AWOS 126.25	,
Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800')	
South Renfrew Muni, ON (CNP3)	L-31E, 32F
Montreal Center App/Dep 124.275	, 02.
	H-2H
SUULIIPUIL, MB (CTPG)	
Southport, MB (CYPG) ATIS 120.85 (Mon-Fri 1400–2300Z‡ except holidays)	
Solutiput, mb (4745) ATIS 120.85 (Mon-Fri 1400-2300Z‡ except holidays) Tower 126.2 384.2 (Mon-Fri 1400-2300Z‡ except holidays)	

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Springwater Barrie Airpark, ON (CNA3)	CHART & PANE L-310
Toronto Center App/Dep Con 124.025	L-311
St. Catherines/Niagara District, ON (CYSN)	H-10H, 11B, L-31E
ATIS 128.525 (1215–0200Z‡)	10.1, 110, 2 011
Toronto Trml App/Dep Con 133.4 253.1	
MF 123.25 (1215-0200Z‡ 5 NM to 3300')	
St Frederic, QC (CSZ4)	L-32F
Montreal Center App/Dep Con 135.025 270.9	
Ct. Georges, QC (CYSG)	H-32H, L-11D
Montreal Center App/Dep Con 132.35	
MF 122.15 (5 NM 3900' ASL)	
St. Jean, QC (CYJN)	L-320
Montreal Center App/Dep Con 125.15 268.3	
Tower 118.2 (Apr-Oct 1230-0230Z‡ Nov-Mar 1300-0200Z‡)	
Gnd Con 121.7	
Sudbury, ON (CYSB)	H-31B, 10G, L-31D
ATIS 127.4	
Toronto Center App/Dep Con 135.5	
MF 125.5 (7 NM to 4000')	
ummerside, PE (CYSU)	H-11E, L-32J
AWOS 122.55 (Pvt)	
Moncton Center App/Dep Con 124.4 384.8	
hunder Bay, ON (CYQT)	H–2J, L–14.
ATIS 128.8 (1100-0400Z‡)	
Winnipeg Center App/Dep Con 132.125 (0400-1100Z‡)	
Tower 118.1 (1100-0400Z‡) Gnd Con 121.9	
App/Dep 119.2 MF 118.1 (0400-1100Z‡ 5 NM to 4000')	
immins, ON (CYTS)	H-11E
ATIS 124.95 (1000-0500Z‡)	
Toronto Center App/Dep Con 128.3 226.3 MF 122.3 (5 NM to 4000')	
oronto/Buttonville Muni, ON (CYKZ)	L-31E
ATIS 127.1 (1200-0400Z‡)	
Toronto Center App Con 133.4 Toronto Center Dep Con 133.4	
Tower 124.8 119.9 (1200-0400Z‡) Gnd Con 121.8	
MF 124.8 (0400–1200Z‡ No gnd station. 5 NM shape irregular to below 2500')	
oronto/City Centre, ON (CYTZ)	L-31E
ATIS 133.6 (1130-0400Z‡)	
App Con 133.4 Dep Con 133.4	
Tower 118.2 119.2 (1130-0400Z‡) Gnd Con 121.7	
Foronto/Lester B Pearson Intl, ON (CYYZ)	H-11B, L-31D
ATIS 120.825	
ATIS 120.825	
ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8	
ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Clnc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4	H-11C, L-31E, 32F
ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Clnc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4	H–11C, L–31E, 32F
ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Clnc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4 Trenton, ON (CYTR)	H-11C, L-31E, 32F
ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Clnc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4 [Tenton, 0N (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8	H-11C, L-31E, 32F
ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Clinc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4 Trenton, ON (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clinc Del 124.35 286.4	
ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Clinc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4 Trenton, ON (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clinc Del 124.35 286.4	
ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Clnc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4 Trenton, ON (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4 Trenton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0	H–11C, L–31E, 32F
ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Clnc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4 Trenton, NN (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4 Trenton/Mountain View, NN (CPZ3) Trenton Mil Advisory 268.0 Trois-Rivieres, QC (CYRQ)	H–11C, L–31E, 32F
ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Clnc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4 Trenton, ON (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4 Trenton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0	H-11C, L-31E, 32I
ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Clnc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4 Trenton, 0N (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4 Trenton/Mountain View, 0N (CPZ3) Trenton Mill Advisory 268.0 Trois-Rivieres, 0C (CYRQ) Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200')	H-11C, L-31E, 32F H-11C, L-32F
ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Cinc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4 Trenton, ON (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Cinc Del 124.35 286.4 Trenton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0 Trenton Mil Advisory 268.0 Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200') Val-D'or, QC (CYVO)	H-11C, L-31E, 32F H-11C, L-32F
ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Clnc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4 Trenton, NN (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4 Trenton/Mountain View, NN (CPZ3) Trenton Mil Advisory 268.0 Trois-Rivieres, QC (CYRQ) Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200') Ial-D'or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3	H-11C, L-31E, 32F H-11C, L-32F
ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Clnc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4 Irenton, NN (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4 Irrenton/Mountain View, NN (CPZ3) Trenton Mil Advisory 268.0 Irois-Rivieres, QC (CYRQ) Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200') Idal-D'or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030–0325Z‡ 5 NM to 4000')	H–11C, L–31E, 32F H–11C, L–32F H–11E
ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Clnc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4 Irenton, NN (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4 Irrenton/Mountain View, NN (CPZ3) Trenton Mil Advisory 268.0 Irois-Rivieres, QC (CYRQ) Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200') Idal-D'or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030–0325Z‡ 5 NM to 4000')	H–11C, L–31E, 32F H–11C, L–32F H–11E
ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Cinc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4 Trenton, ON (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Cinc Del 124.35 286.4 Trenton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0 Trenton Mil Advisory 268.0 Trenton Mil Advisory 268.0 Trenton Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200') Val-D'or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030–0325Z‡ 5 NM to 4000') Vancouver Intl, BC (CYVR) ATIS 124.6 124.75	H–11C, L–31E, 32F H–11C, L–32F H–11E
ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Clnc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4 Irenton, 0N (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4 Irenton/Mountain View, 0N (CPZ3) Trenton Mil Advisory 268.0 Irenton/Mountain View, 0N (CPZ0) Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200') Val—D'or, 0C (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030–0325Z‡ 5 NM to 4000') Val—O'ur Intl, 8C (CYVR) ATIS 124.6 124.75 App Con 128.6 128.17 352.7 (Outer) 133.1 134.225 352.7 (Inner)	H–11C, L–31E, 32F H–11C, L–32H H–11B
ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Cinc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4 Trenton, ON (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Cinc Del 124.35 286.4 Trenton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0 Trenton Mil Advisory 268.0 Trenton Mil Advisory 268.0 Trenton Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200') Val-D'or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030–0325Z‡ 5 NM to 4000') Vancouver Intl, BC (CYVR) ATIS 124.6 124.75	H-11C, L-31E, 32F H-11C, L-31E, 32F H-11C, L-32H H-11B

CILITY NAME	CHART & PANEL
Victoria Intl, BC (CYYJ)	H-1B, L-1E
ATIS 118.8 (1400-0800Z‡)	
App Con 125.95 308.4 Dep Con 133.85 308.4	
Tower 119.1 (Outer) 119.7 (Inner) 239.6	
Gnd Con 121.9 361.4 (1400–0800Z‡ OT ctc Kamloops 119.7)	
Cinc Del 126.4 (1400-0800Z‡)	
Victoriaville, QC (CSR3)	L-32H
Montreal Center App Con 132.35 Waterville/Kings Co Muni, NS (CCW3)	L-32J
Greenwood Trml App/Dep Con 120.6 335.9	L-323
Greenwood Tower 119.5 324.3	
Wiarton, ON (CYVV)	H-11B, L-31D
Toronto Center App/Dep Con 132.575	11-110, 1-010
MF 122.2 (5 NM to 3700')	
Windsor, ON (CYQG)	H-10G, L-8J
ATIS 134.5 (1130–0330Z‡)	11–100, 1–03
Detroit App/Dep Con 126.85 127.5 134.3 348.3 363.2	
Tower 124.7 (1130–0330Z‡) Gnd Con 121.7	
MF 124.7 (0330–1130Z‡ 6 NM irregular shape to below 3000')	
VFR Advisory Detroit App Con 134.3	
Yarmouth, NS (CYOI)	H-11E, L-32
Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100')	11-111, 1-32
(2 1)	
MEXICO	
CILITY NAME	CHART & PANEL
Abraham Gonzalez Intl (MMCS)	H-4K, L-6F
Juarez App Con 119.9 Juarez Tower 118.9	
Del Norte Intl (MMAN)	H-7B, L-20G
ATIS 127.55 (1300-0300Z‡)	
Monterrey App 119.75 120.4 Tower 118.6	
Durango Intl (MMDO)	H-7A
ATIS 132.1	
Tower 118.1 Durango Info 122.3	
General Abelardo L Rodriguez Intl (MMTJ)	H-4H, L-4H
ATIS 127.9	
Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Clnc Del 122.35	
Tijuana Info 132.1	
General Lucio Blanco Intl (MMRX)	H-7B, L-20H
Reynosa App Con 118.8 Reynosa Tower 118.8	
General Mariano Escobedo Intl (MMMY)	H-7B, L-20G
ATIS 127.7	
Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9	
General R Fierro Villalobos Intl (MMCU)	L-6
ATIS 127.9	
Chihuahua App Con 121.0 Chihuahua Tower 118.4	
General Rodolfo Sanchez Taboada Intl (MMML)	H-4H, L-4J, 5A
ATIS 127.6	
Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3	
General Servando Canales (MMMA)	H-7C, L-21A
General Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0	·
General Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Plan De Guadalupe Intl (MMIO)	·
General Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Plan De Guadalupe Intl (MMIO) Saltillo App Con 127.4 Saltillo Tower 118.4	H–7B
General Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Plan De Guadalupe Intl (MMIO) Saltillo App Con 127.4 Saltillo Tower 118.4 Quetzalcoatl Intl (MMNL)	H–7B
General Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Plan De Guadalupe Intl (MMIO) Saltillo App Con 127.4 Saltillo Tower 118.4 Quetzalcoatl Intl (MMNL) Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3	H–7C, L–21A H–7B H–7B, L–20G
General Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Plan De Guadalupe Intl (MMIO) Saltillo App Con 127.4 Saltillo Tower 118.4 Quetzalcoatl Intl (MMNL)	H–7B

In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the A/FD. Diagrams will be listed alphabetically by associated city and airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in ground taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedures Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.

NOTE: Some text data published under the individual airport in the front portion of the A/FD may be more current than the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

GENERAL INFORMATION

PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

Available pilot controlled lighting (PCL) systems are indicated as follows:

- 1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., 🖏 💽 😧
- 2. Approach lighting systems that do not bear a system identification are indicated with a negative "n" beside the name.

A star (*) indicates non-standard PCL, consult the individual airport in the front portion of the A/FD, e.g., 0

To activate lights use frequency indicated in the communication section of the chart with a $m{0}$ or the appropriate lighting system identification e.g., UNICOM 122.8 0, 🚳, 🛇

KEY MIKE	

7 times within 5 seconds

5 times within 5 seconds 3 times within 5 seconds Highest intensity available

FUNCTION Medium or lower intensity (Lower REIL or REIL-off)

Lowest intensity available (Lower REIL or REIL-off)

CHART CURRENCY INFORMATION

Date of latest change Orig 00365 -- Amdt 11A 99365--FAA procedure amendment number—

The Chart Date indentifies the Julian date the chart was added to the volume or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest addition or change was first published.

The Procedure Amendment Number precedes the Chart Date, and changes any time instrument information (e.g., DH, MDA, approach routing, etc.) changes. Procedure changes also cause the Chart Date to change.

MISCELLANEOUS

- Indicates a non-continuously operating facility, see the individual airport in the front portion of the A/FD.
- Indicates control tower temporarily closed UFN.

09071 LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM Runways Helicopter Alighting Areas (H) [H] [H] [A] [H] Other Than Stopways, Taxiways, . Displaced Hard Negative Symbols used to identify Copter Procedures Hard Surface Parking Areas, Threshold Surface landing point...... H 👪 H Water Runways xxx Runway Threshold elevation.....THRE 123 Runway TDZ elevation......TDZE 123 Closed Closed Meta Under Runway Taxiway Construction Surface -- 0.3% DOWN (shown when runway slope is greater than ARRESTING GEAR: Specific arresting gear systems; or equal to 0.3%) e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to Runway Slope measured to midpoint on runways appropriate DOD publications. 8000 feet or longer. __uni-directional bi-directional ₹ Jet Barrier U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of ARRESTING SYSTEM approximately 7 feet and proximity to edge of runway may create an obstruction for some types REFERENCE FEATURES of aircraft. Buildings Approach light symbols are shown in the Tanks..... Flight Information Handbook. Airport digaram scales are variable. Airport Beacon #...... ☆ True/magnetic North orientation may vary from Radar Reflectors. diagram to diagram Control Tower #..... Coordinate values are shown in 1 or ½ minute Hot Spot increments. They are further broken down into 6 second ticks, within each 1 minute increments. # When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and Positional accuracy within ±600 feet unless otherwise further identified as TWR noted on the chart. Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds All new and revised airport diagrams are shown referif any) but excluding areas designated as stopways. enced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible A D symbol is shown to indicate runway declared distance information available, see appropriate A/FD, with local coordinates published in FLIP. (Foreign Only) Alaska or Pacific Supplement for distance information. Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression. Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 S75, T185, ST175, TT325 PCN 80 F/D/X/U Rwy 2 ldg 8000' **FIELD** Runway Displaced Threshold **ELEV** Slope Runway 174 **EMAS** Identification **BAK-12** 1200 X 200 0.7% UP 1000 X 200 9000 X 200 023.2°() Arresting System Operations ELEV Runway End (in feet) 164 Runway Dimensions Runway Heading Elevation (in feet) Stopway Dimensions (Magnetic) (in feet) SCOPE Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex

Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer Based Navigation Systems (I.E., INS, GPS) aboard aircraft. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

LEGEND

AIRPORT DIAGRAMS HOT SPOTS

An "Airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on a airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness and training. Hot spots are depicted on airport diagrams as open circles or polygons designated as "HOT¹", "HOT²", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

ILLINOIS CHICAGO HOT1 CHICAGO-OHARE INTL (ORD) Taxiing traffic on Twy R cannot stop on Twy R between Rwv 9R-27L and Rwv 4L-22R. HOT^2 Rwv 27L arrivals prohibited from turning onto Rwy 4L-22R without ATC clearance. HOT^3 Aircraft northeast bound on Twy B turning right onto Twy H use caution - close proximity to Rwy 9R/27L. HOT4 Landing Rwy 22R traffic must receive clearance to cross Rwy 9R-27L on Twy A1. HOT⁵ Rwy 14L arrivals exiting Twy P4 use caution - close proximity to Rwy 9R-27L. HOT6 Aircraft northeast bound on Twy P turning left onto Twy H use caution - close proximity to Rwy 9R/27L. HOT^7 Aircraft turning left onto Twy K from Twy T10 use caution to avoid inadvertent turn onto Twv M. HOT⁸ Twy S5 - north bound traffic only exiting Rwy 4R. HOT⁹ Traffic inbound to the terminals from Twy G and Twy E can expect a right turn on Twy Z to avoid active rwys. HOT¹⁰ Intersection of Rwv 14L and Rwv 27R - Rwv 14L not an exit. Rwy 9L-27R exits located at the far ends of the rwy. MOLINE QUAD CITY INTL (MLI) HOT1 Rwy 31 Non-standard hold position. Distance to edge of rwy 698'. INDIANA EVANSVILLE EVANSVILLE RGNL (EVV) HOT1 Pilots taxiing to Rwy 09 enter the rwy mid-field. Do not taxi to the "numbers" without ATC clearance. Rwv 09-27 is a short distance from the General Aviation Ramp-use appropriate vigilance. HOT^2 Pilots cleared to taxi to Rwv 27 sometimes enter the Rwy 27 without a clearance. HOT3 Rwy 18-36 in close proximity to General Aviation Ramp-use appropriate vigilance. HOT4 Rwy 18-36 in close proximity to General Aviation Ramp-use appropriate vigilance. MICHIGAN IACKSON JACKSON CO-REYNOLDS FLD (JXN) HOT1 Caution confusing signage. HOT2 No signage.

WISCONSIN

JANESVILLE

SOUTHERN WISCONSIN RGNL (JVL) HOT¹ Rwy 32 and Rwy 36 approach ends are closely

aligned and may be confused when lining up for

departure

MILWAUKEE HOT¹ Pilots taxiing northbound on Twy E for an

GENERAL MITCHELL INTL (MKE) intersection departure on Rwy 19R at Twy V can end
up entering Rwy 7L-25R if they miss the right turn

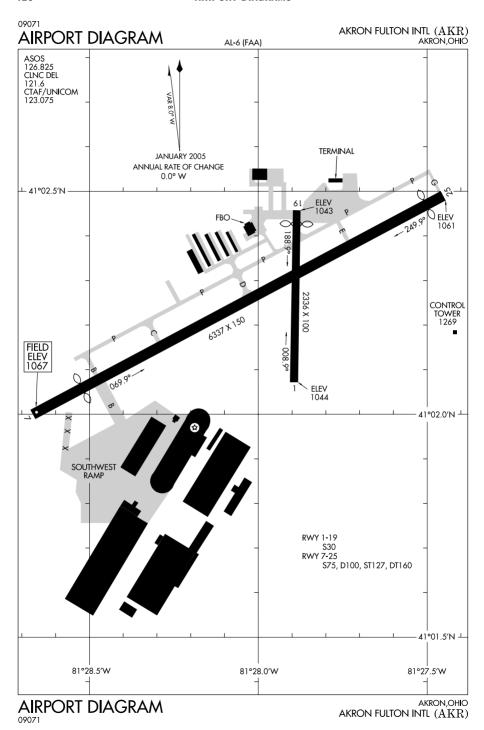
up entering Rwy 7L–25R if they miss the right turn for Twy V. To avoid a runway incursion, pilots on Twy E should use extreme caution approaching Rwy

7L-25R.

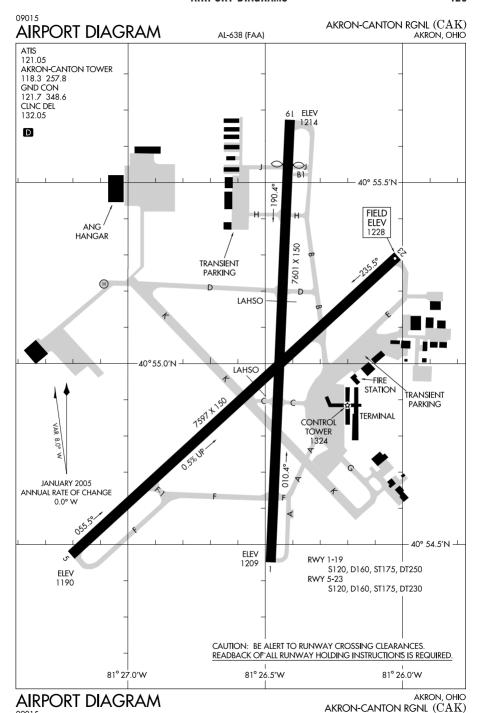
 ${
m HOT}^2$ Use caution in the area of Twy M and Rwy 1L-19R.

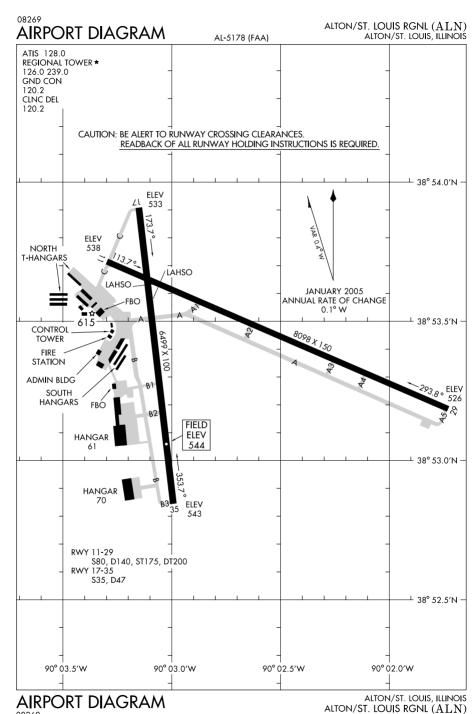
Pavement widens out as the taxiway approaches

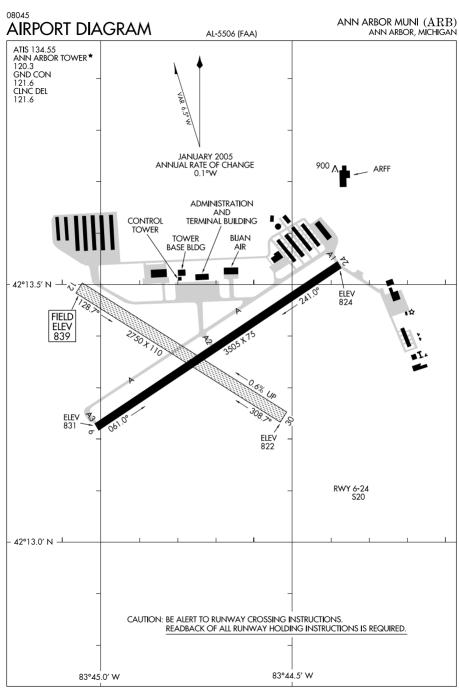
the runway and may cause confusion.



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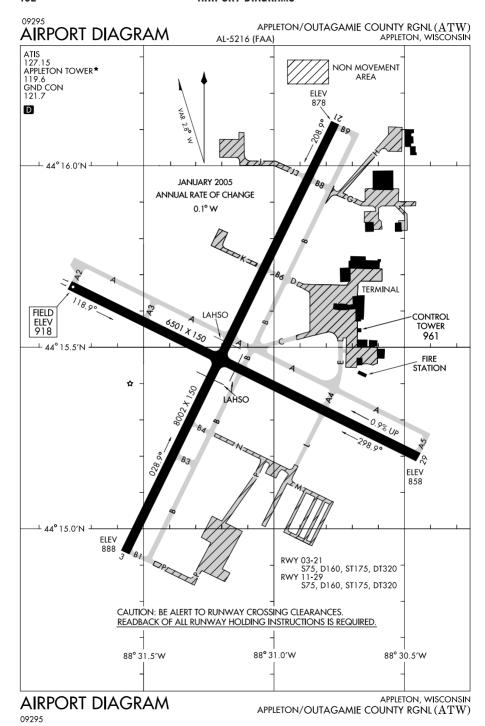




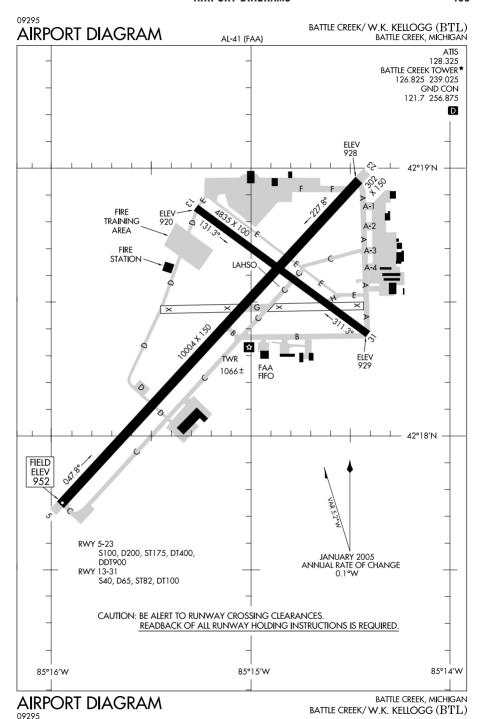


AIRPORT DIAGRAM

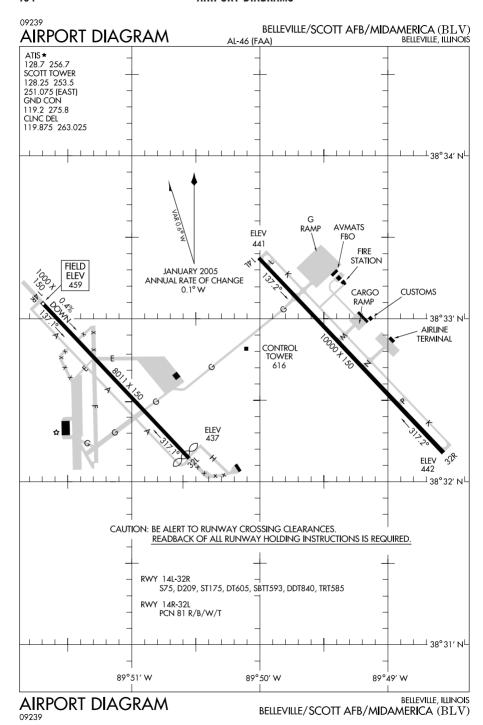
ANN ARBOR, MICHIGAN ANN ARBOR MUNI (ARB)



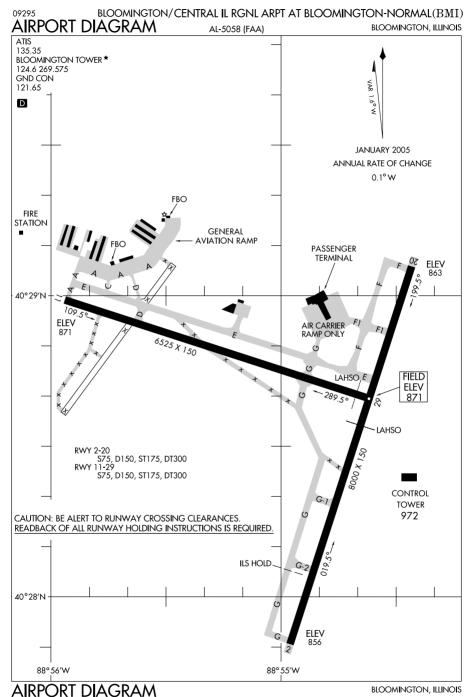
EC, 17 DEC 2009 to 11 FEB 2010



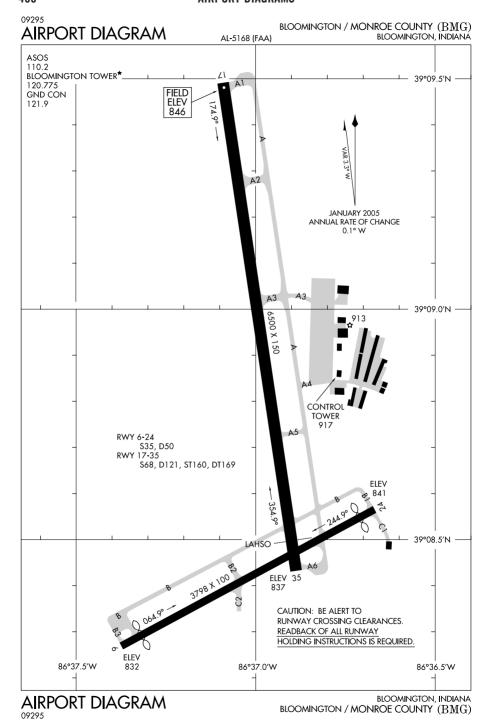
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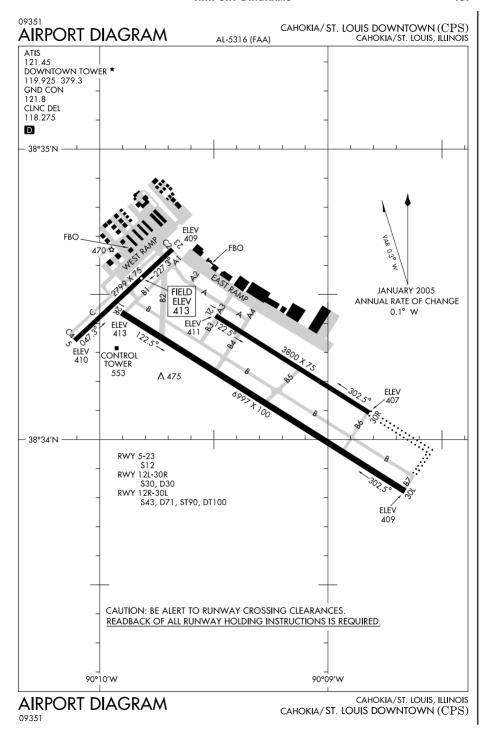
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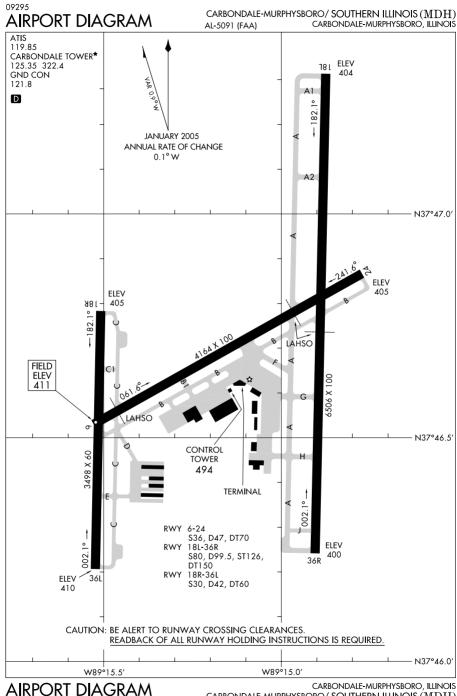


09295 BLOOMINGTON/CENTRAL IL RGNL ARPT AT BLOOMINGTON-NORMAL(BMI)

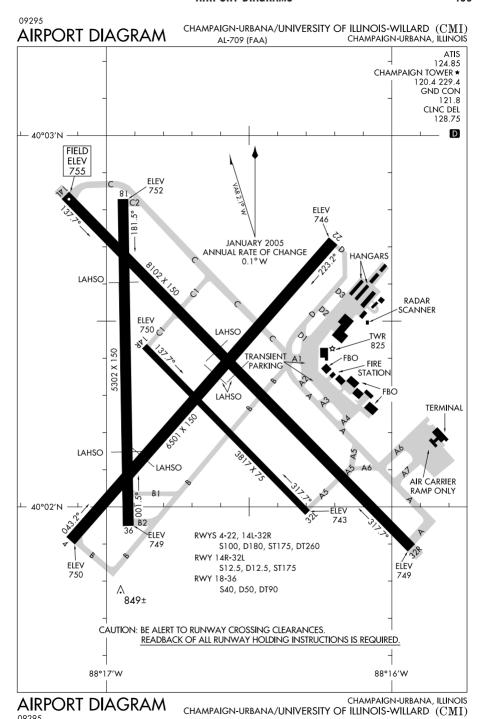


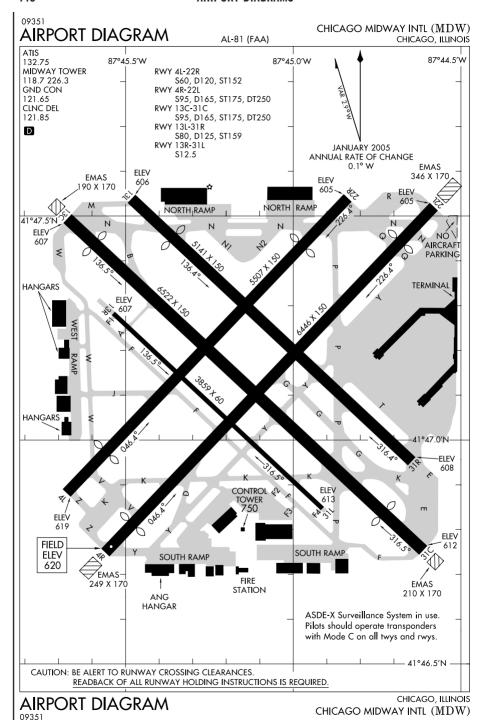
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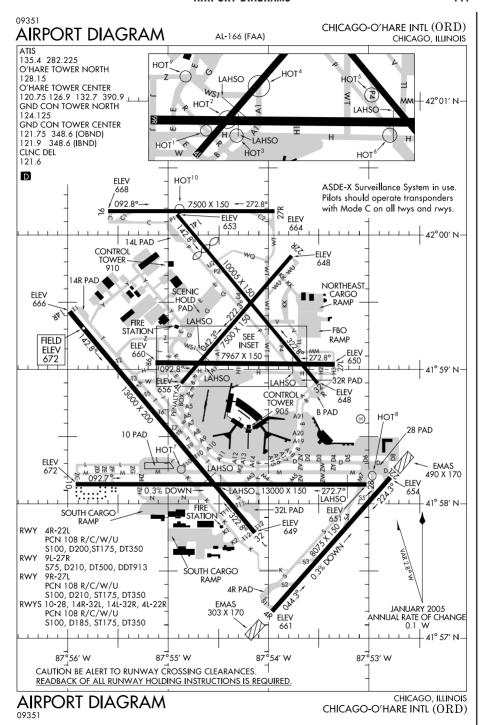


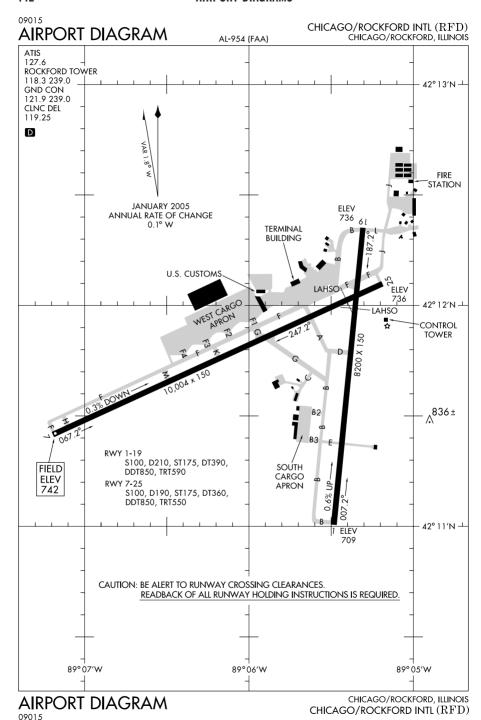


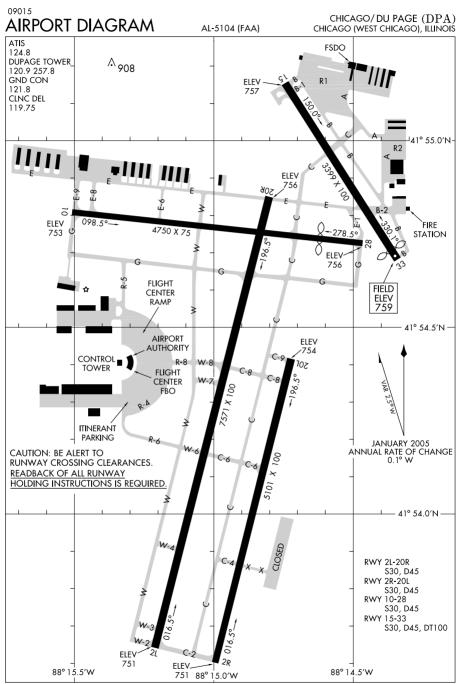
CARBONDALE-MURPHYSBORO/ SOUTHERN ILLINOIS (MDH)





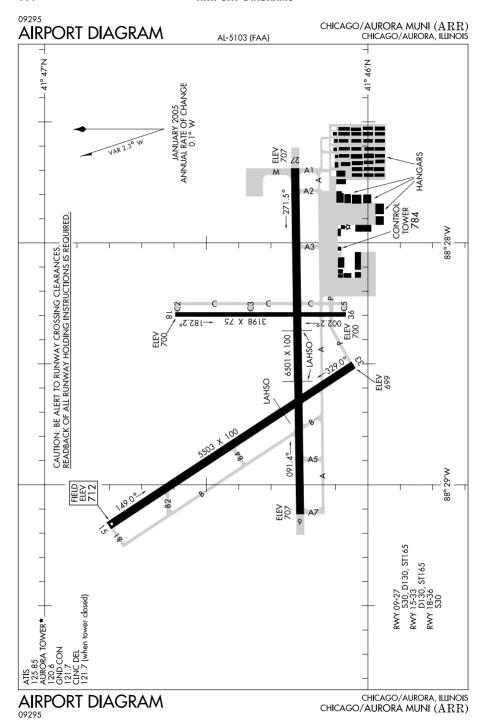




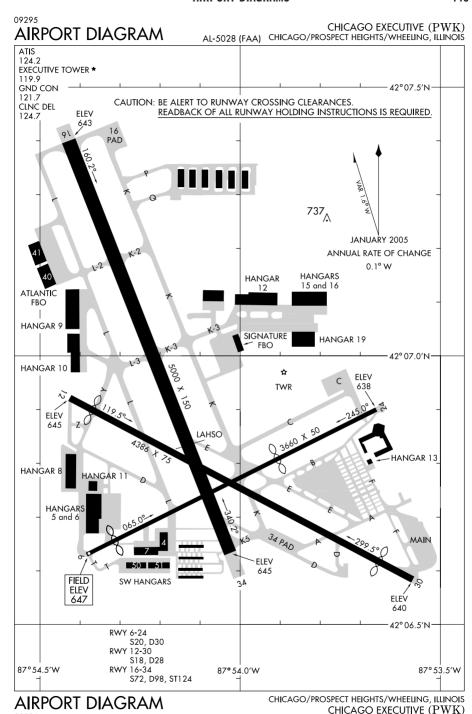


AIRPORT DIAGRAM

CHICAGO (WEST CHICAGO), ILLINOIS CHICAGO/DU PAGE (DPA)

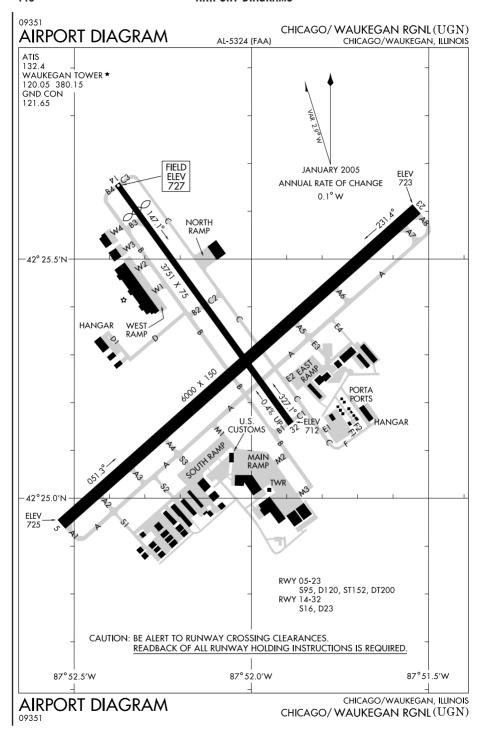


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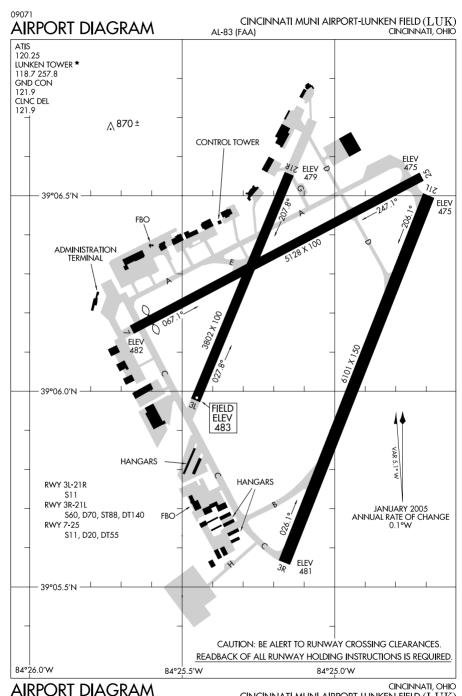


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09295

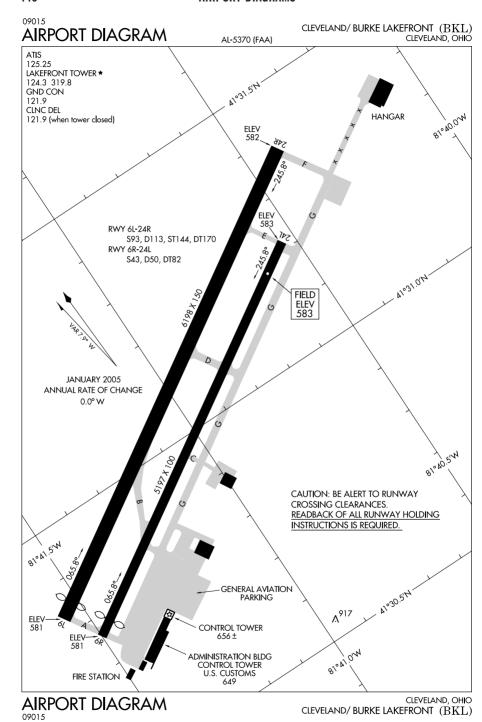


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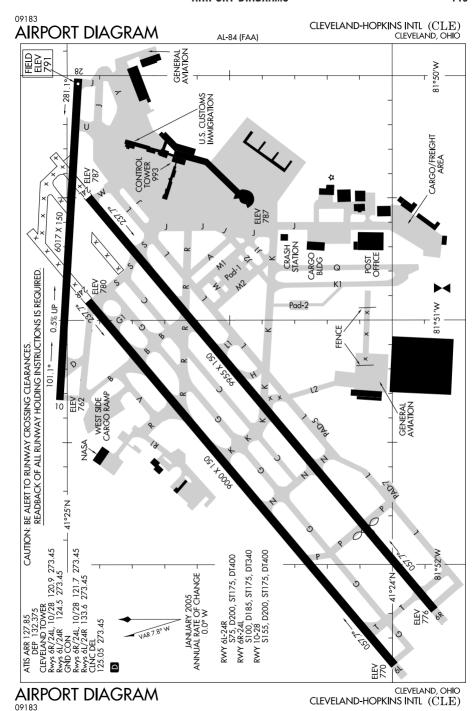


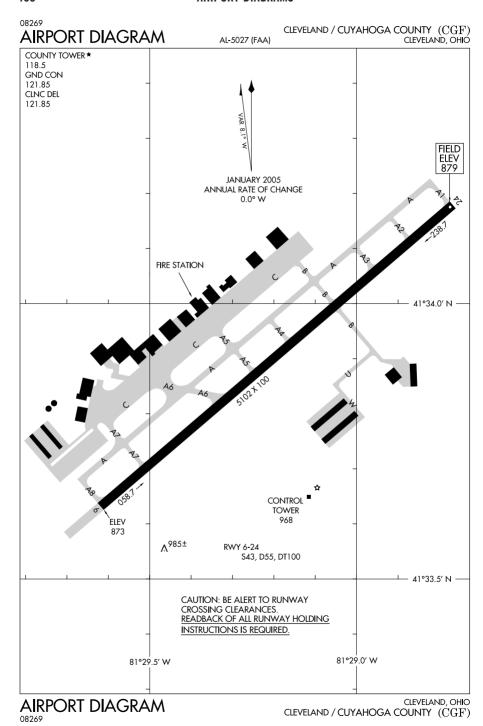
09071

CINCINNATI MUNI AIRPORT-LUNKEN FIELD (LUK)

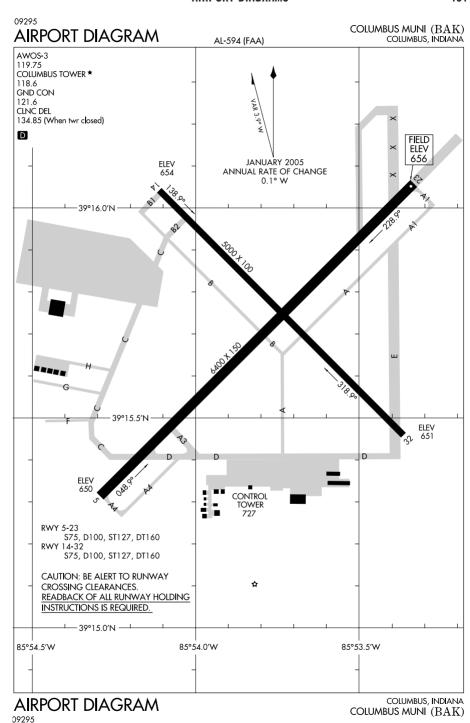


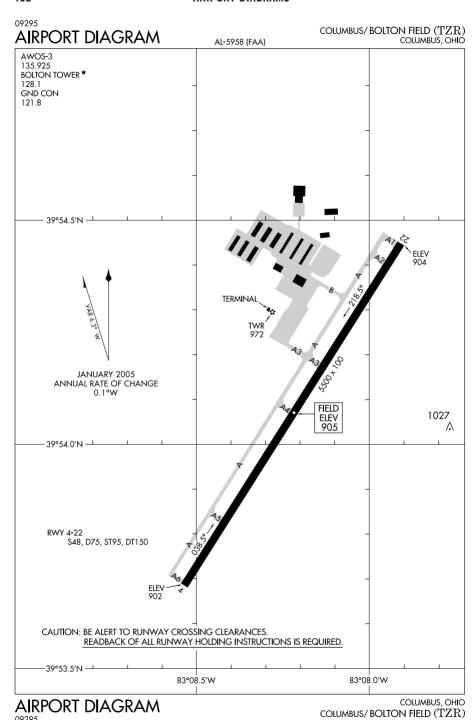
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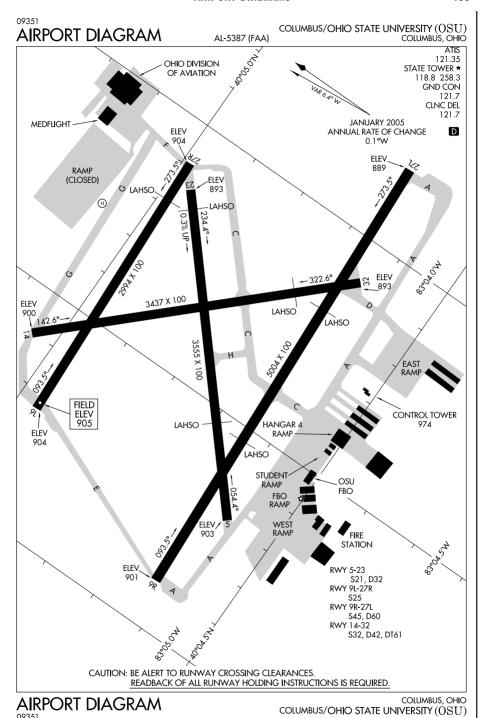


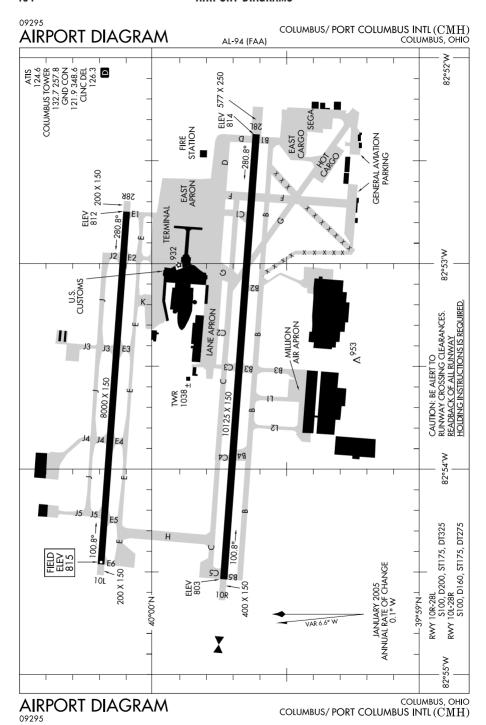
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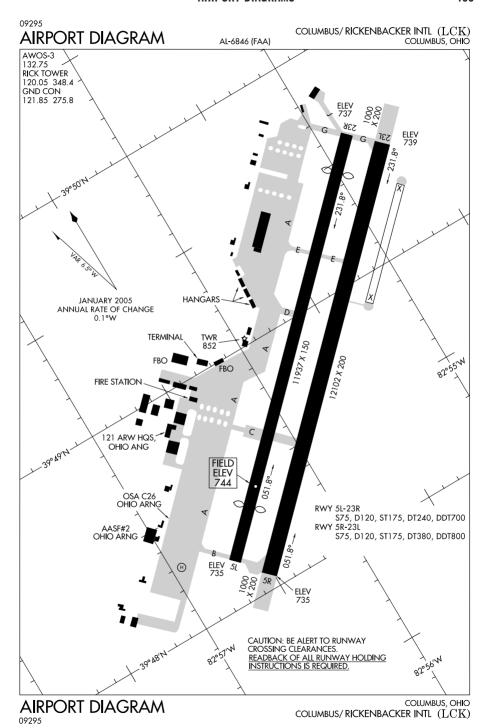


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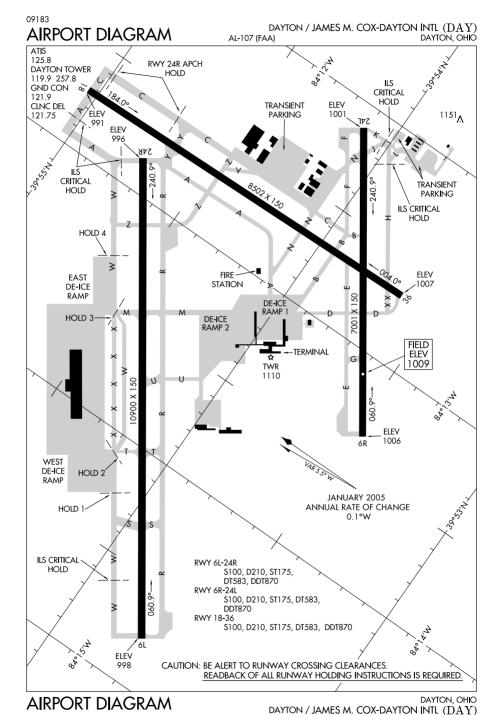




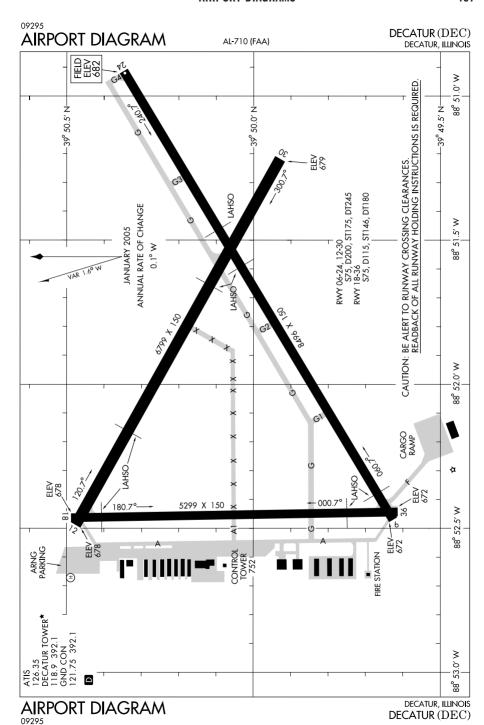
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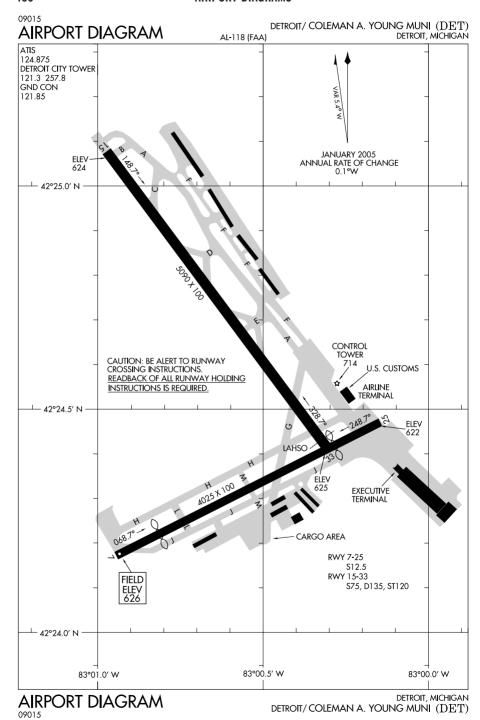


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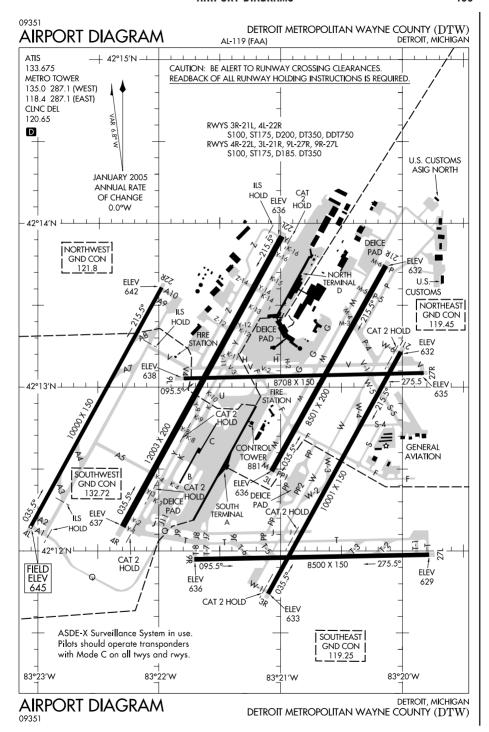


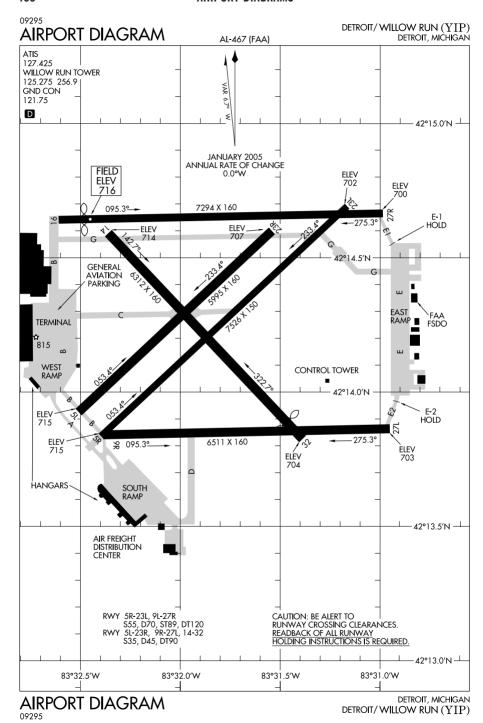
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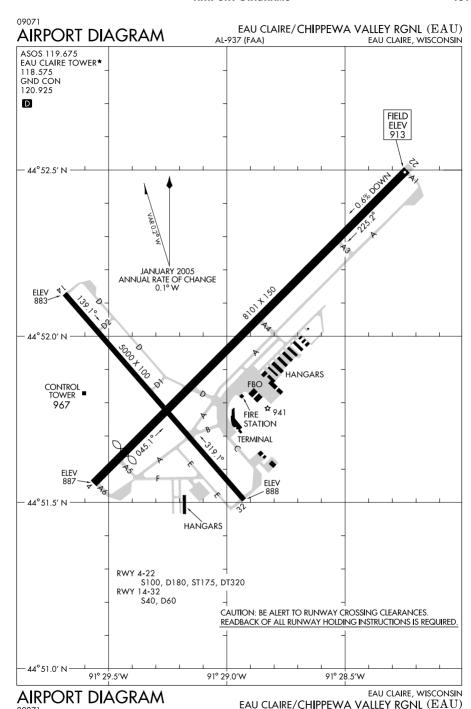




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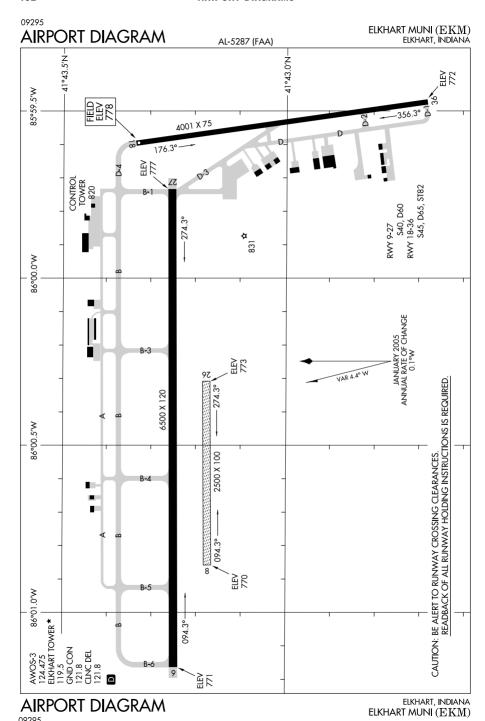




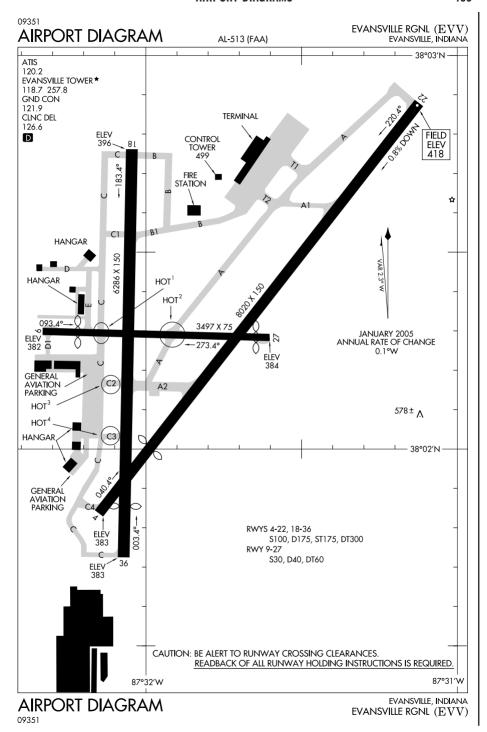


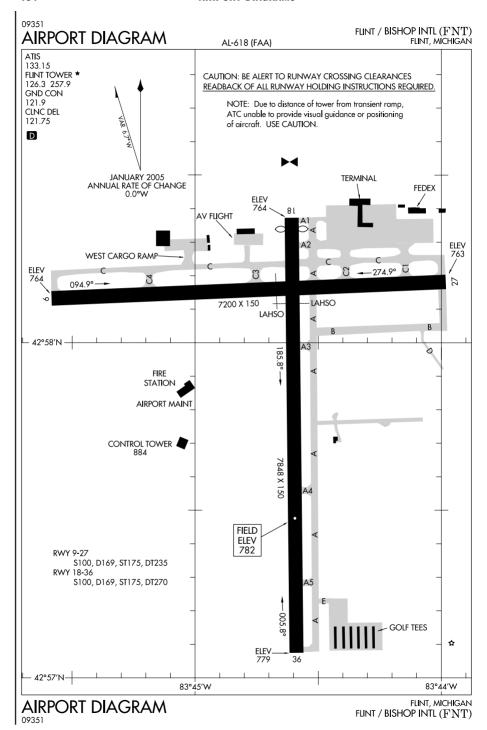
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09071

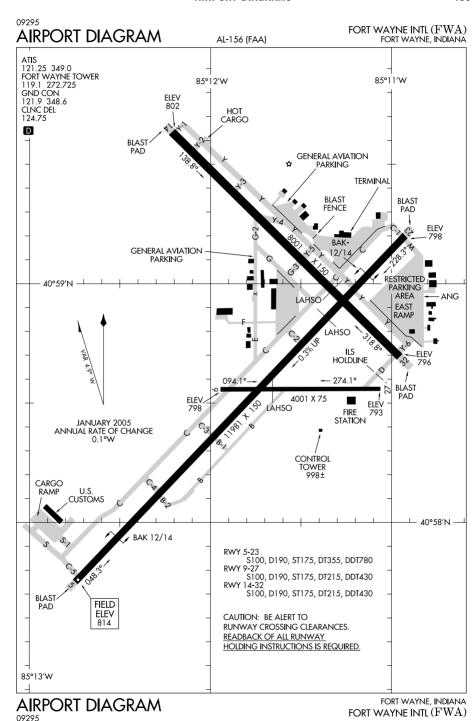


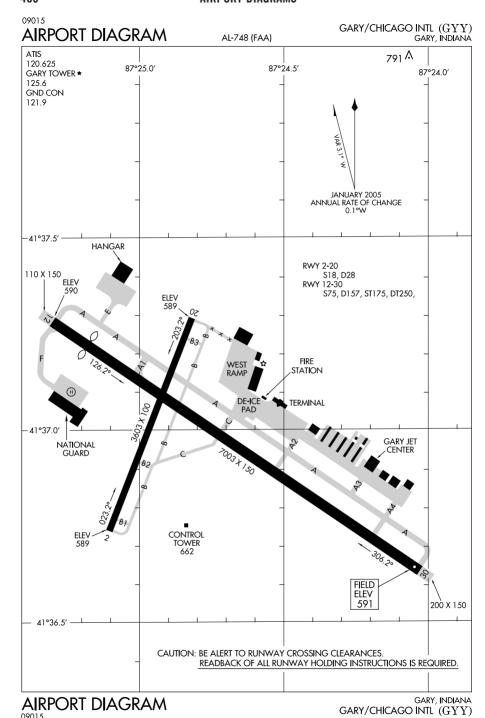
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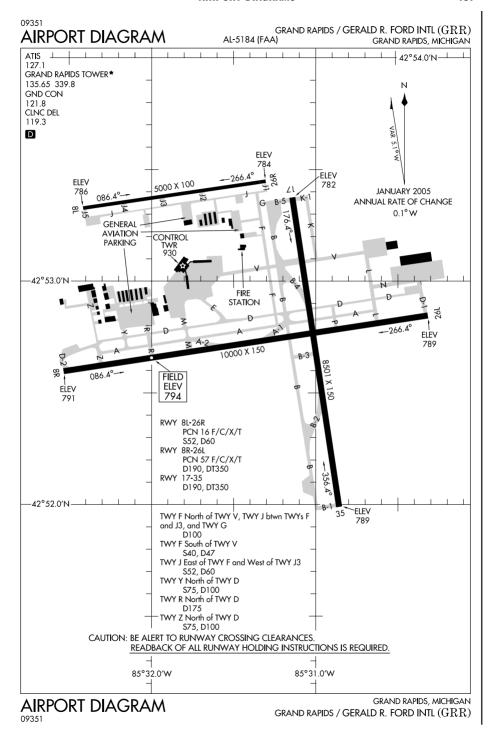


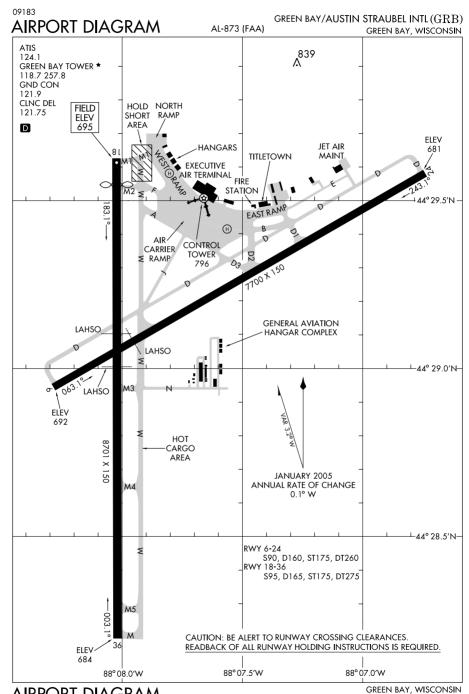
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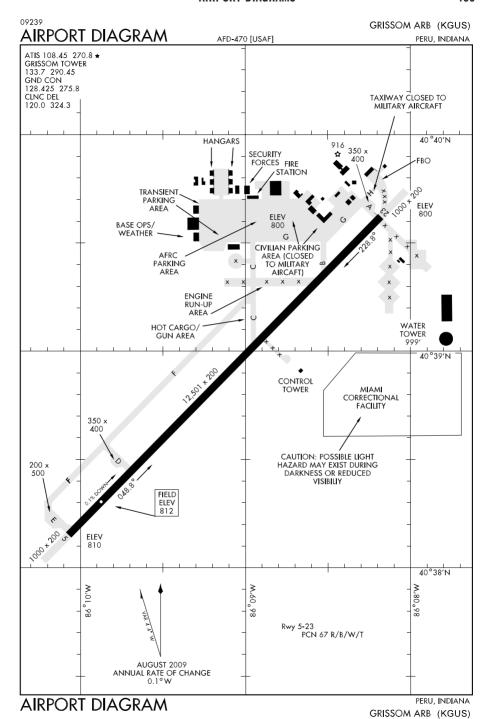


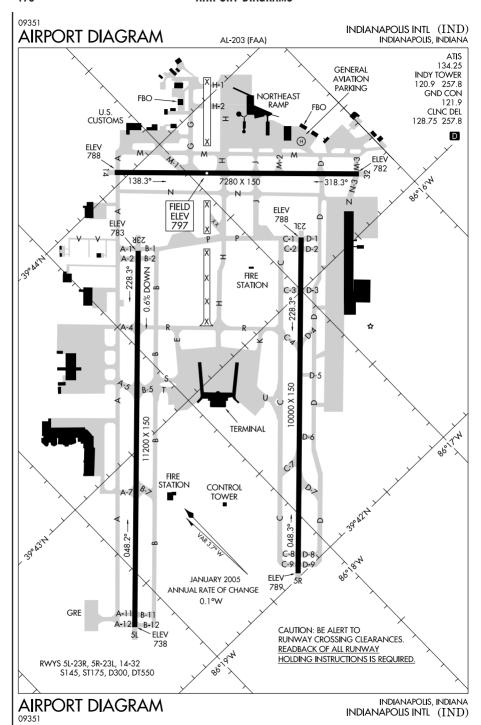
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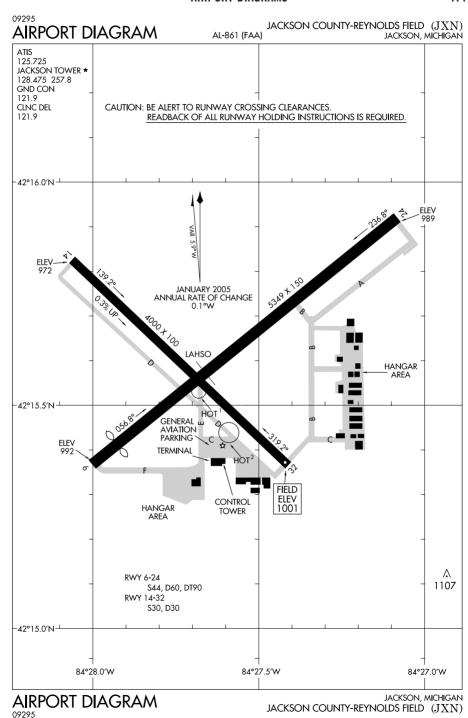


GREEN BAY/AUSTIN STRAUBEL INTL (GRB)

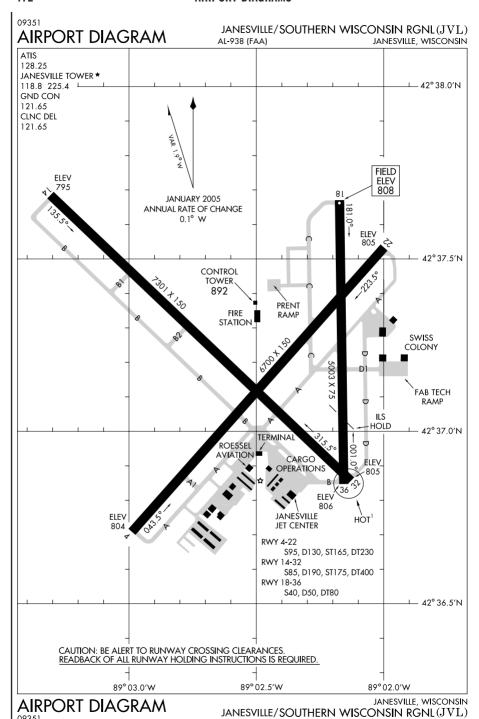


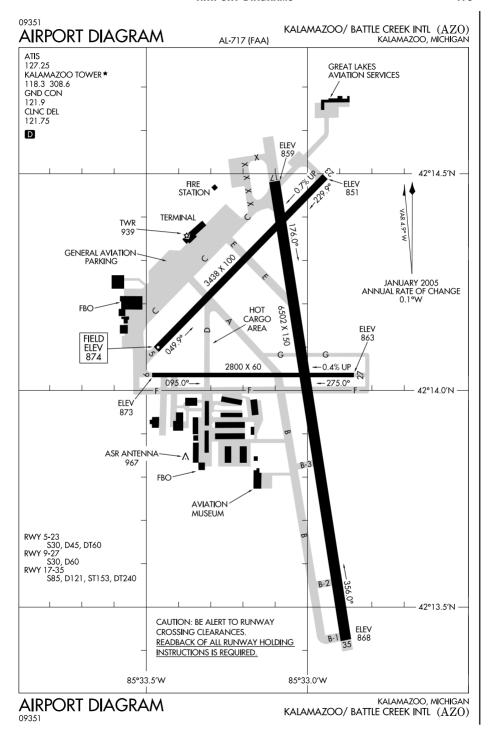


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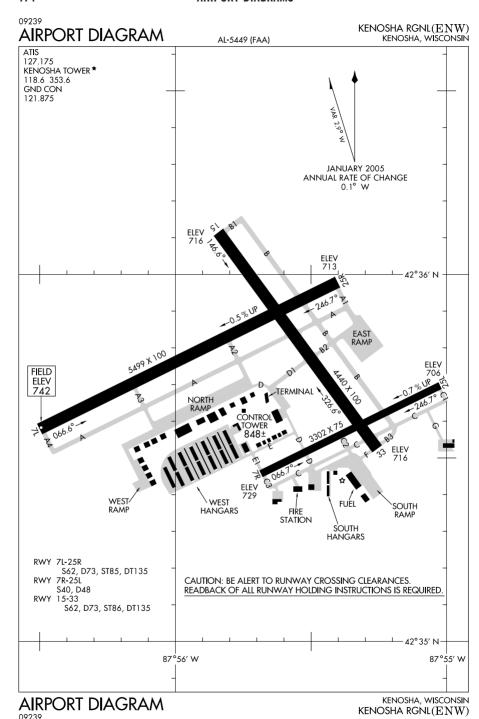


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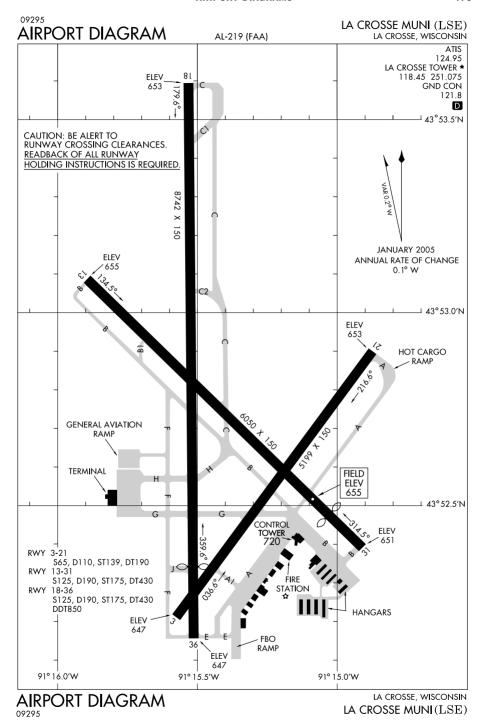




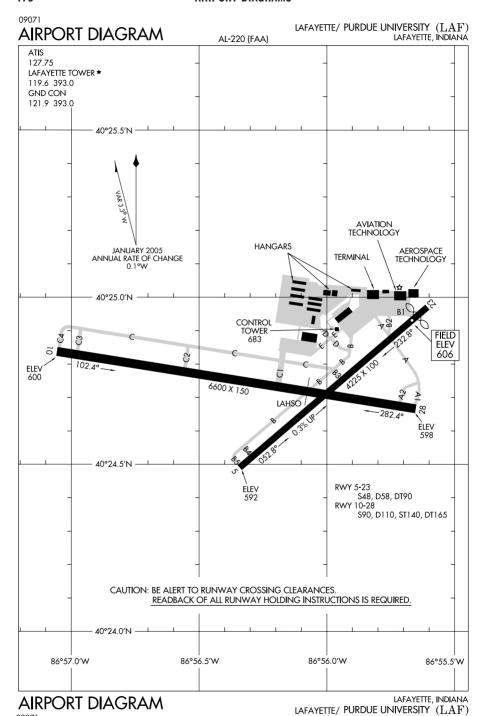
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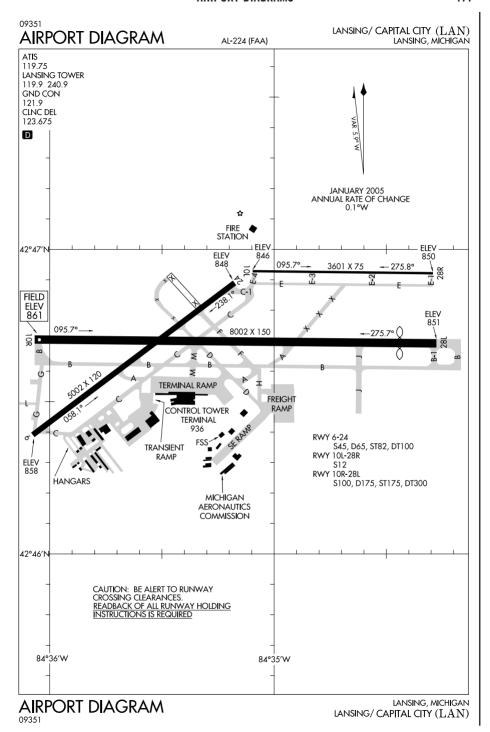


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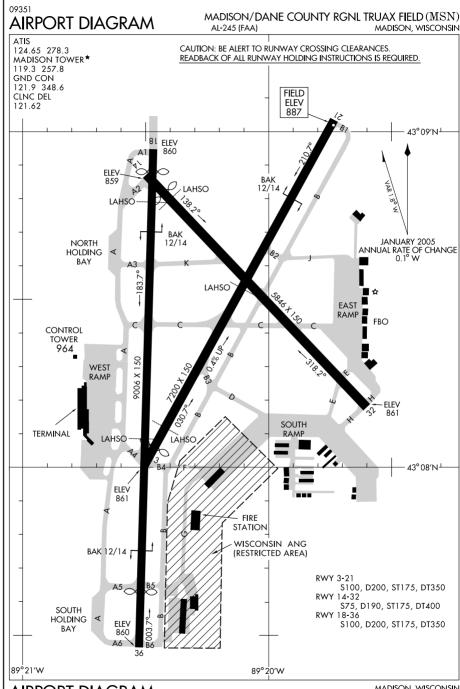


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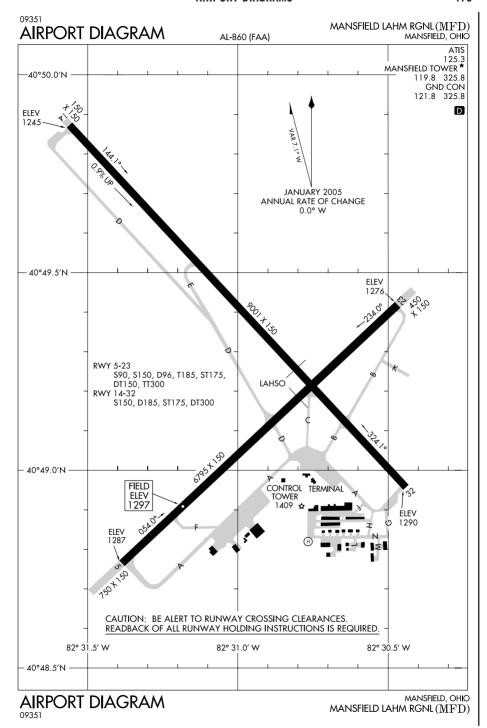


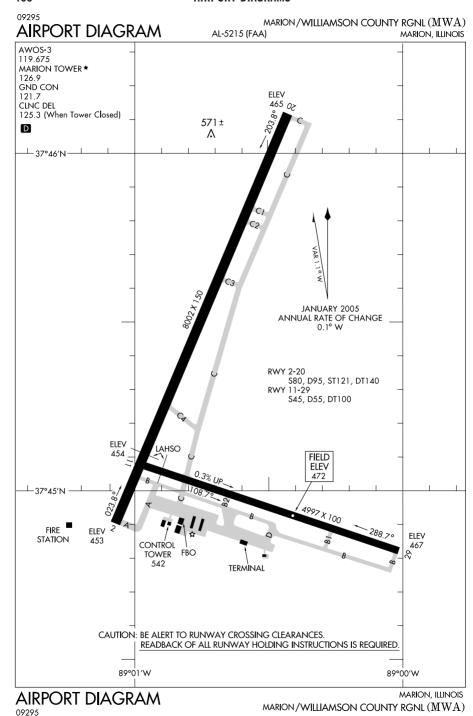


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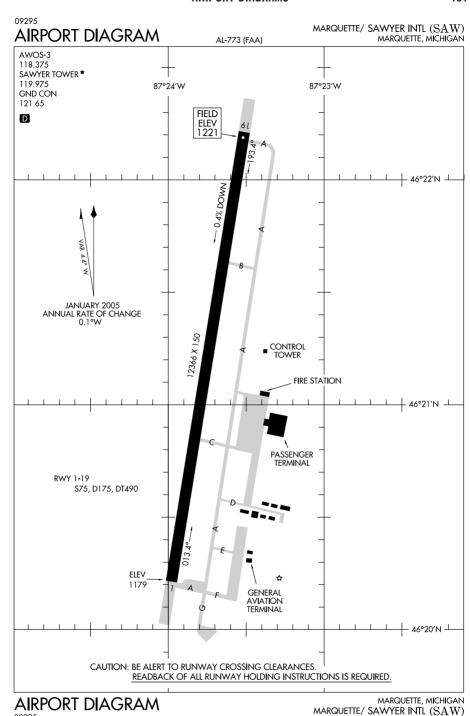


 $\label{eq:madison_madison} \text{Madison/Dane County RGNL Truax Field } (MSN)$

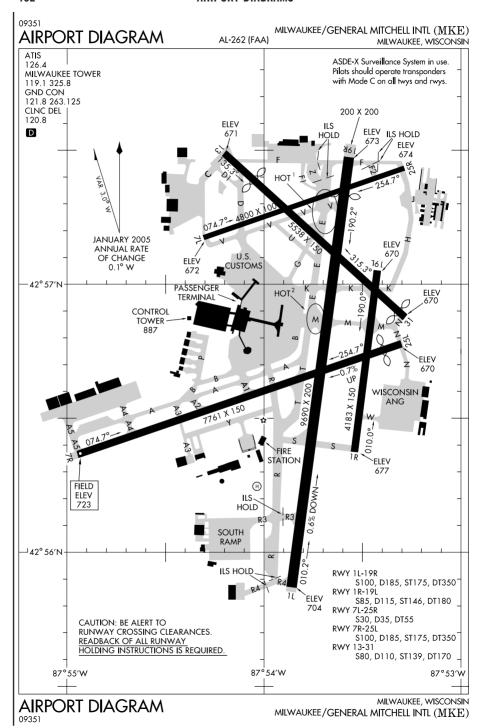


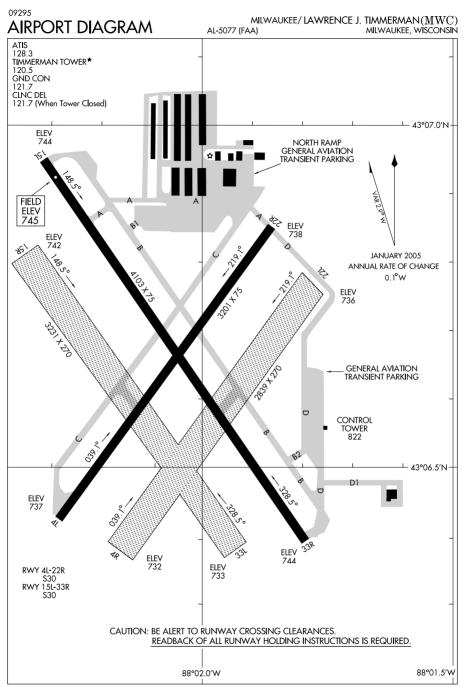


EC, 17 DEC 2009 to 11 FEB 2010



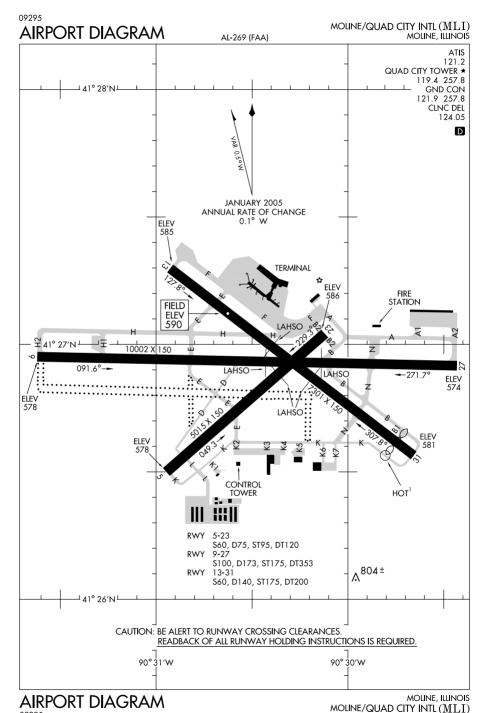
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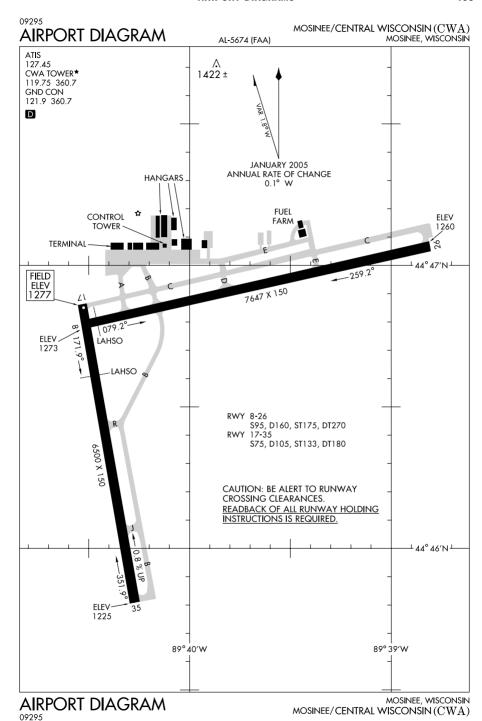


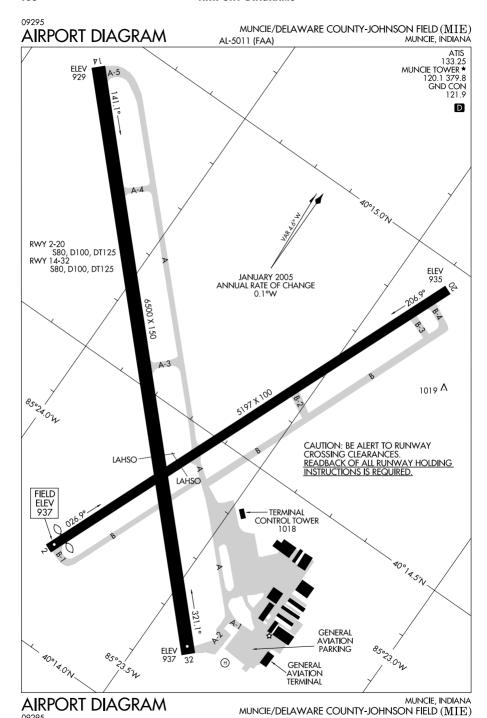


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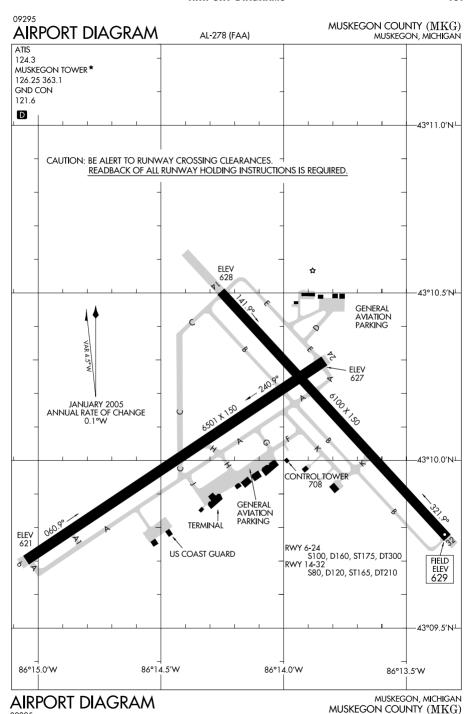
 $\begin{array}{c} \text{MILWAUKEE, WISCONSIN} \\ \text{MILWAUKEE/LAWRENCE J. TIMMERMAN}(\underline{MWC}) \end{array}$



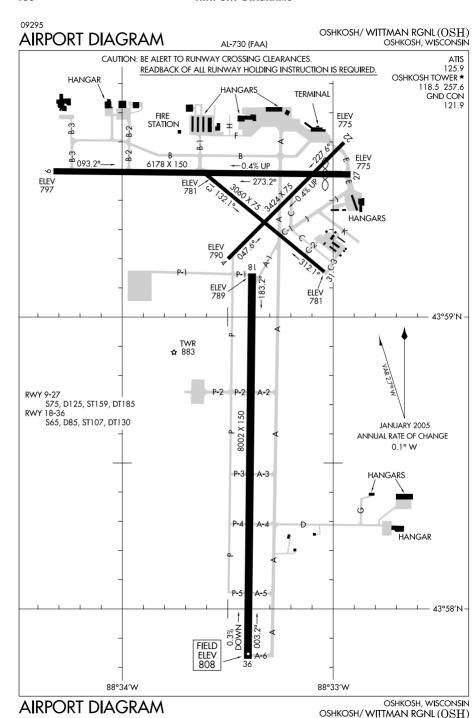




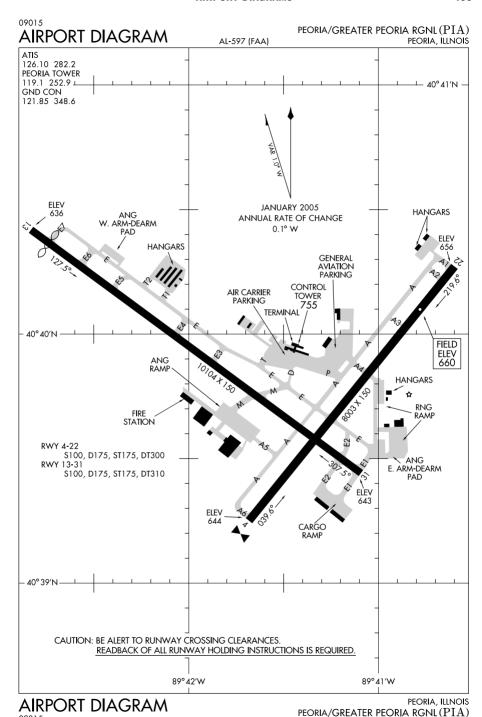
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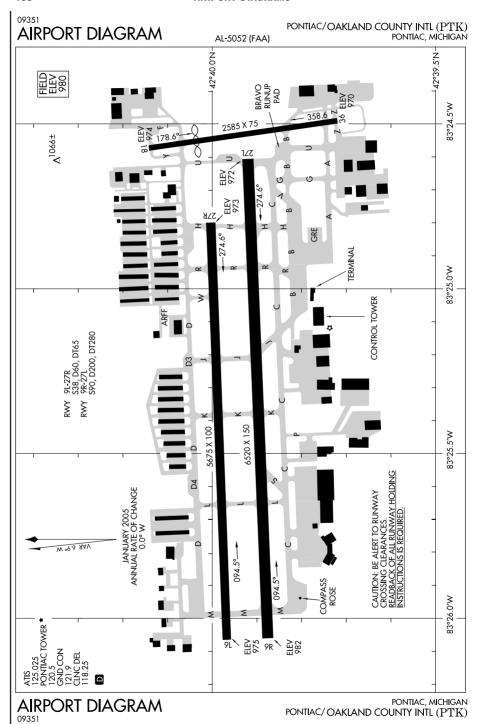


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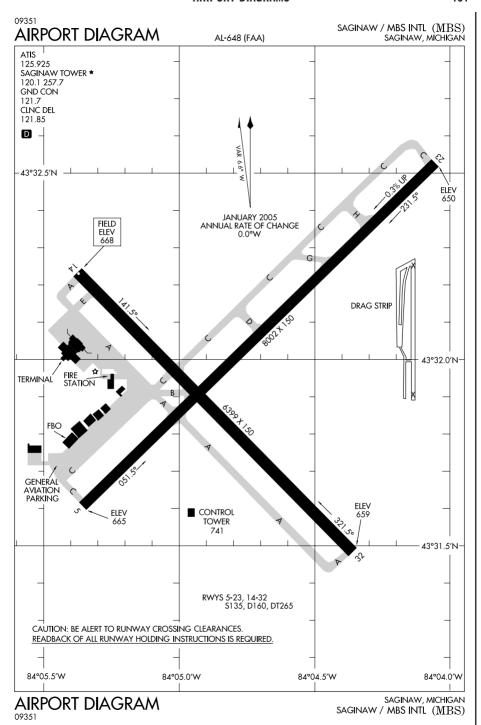


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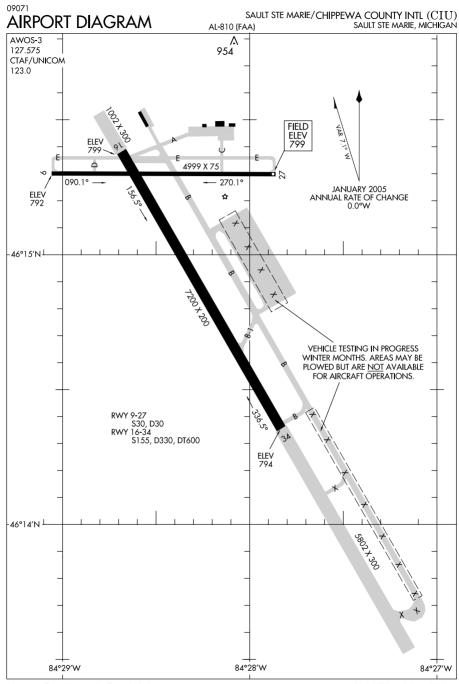
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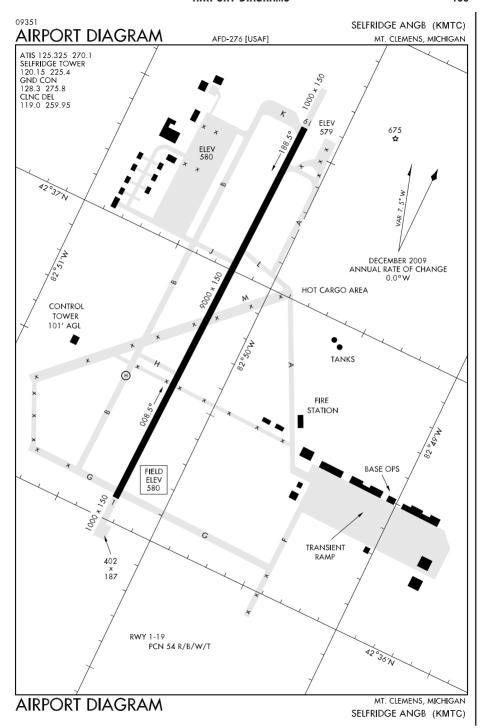
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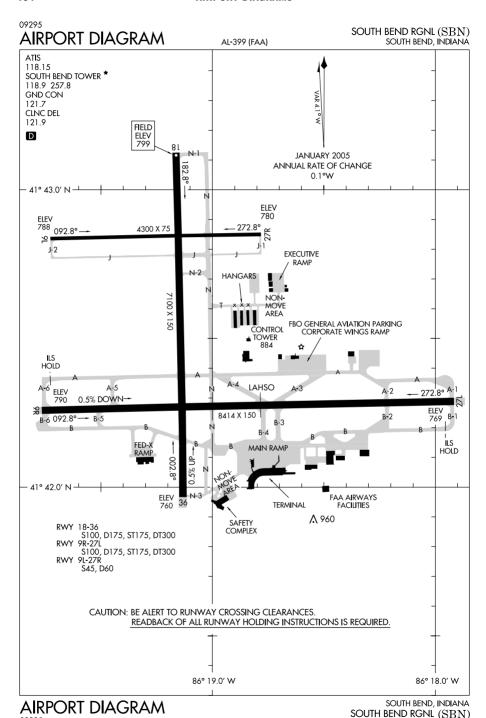
EC, 17 DEC 2009 to 11 FEB 2010

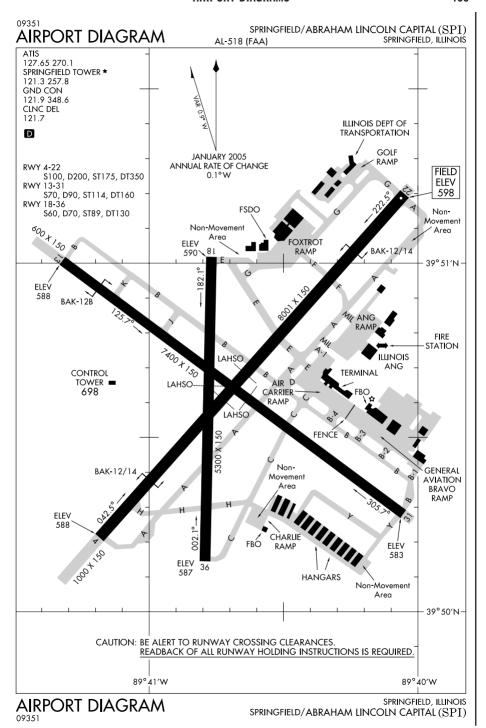


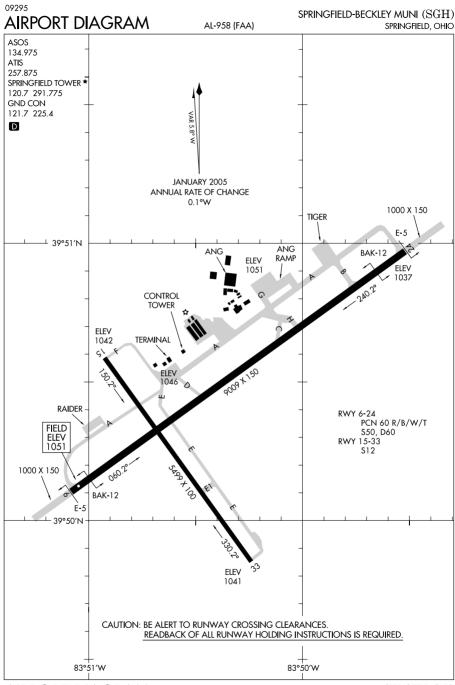
Sault ste marie, michigan sault ste marie/ Chippewa County Intl $\left(CIU\right)$



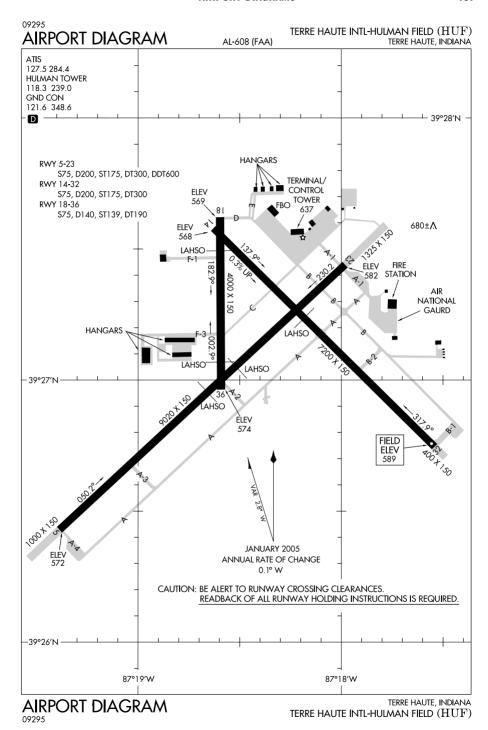
EC, 17 DEC 2009 to 11 FEB 2010

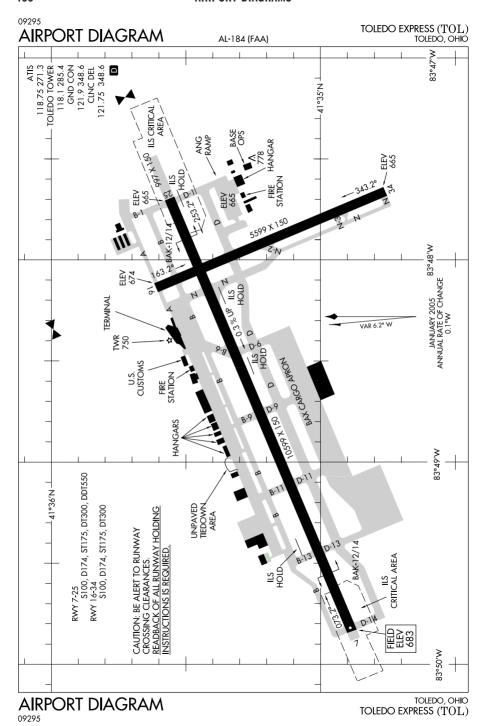




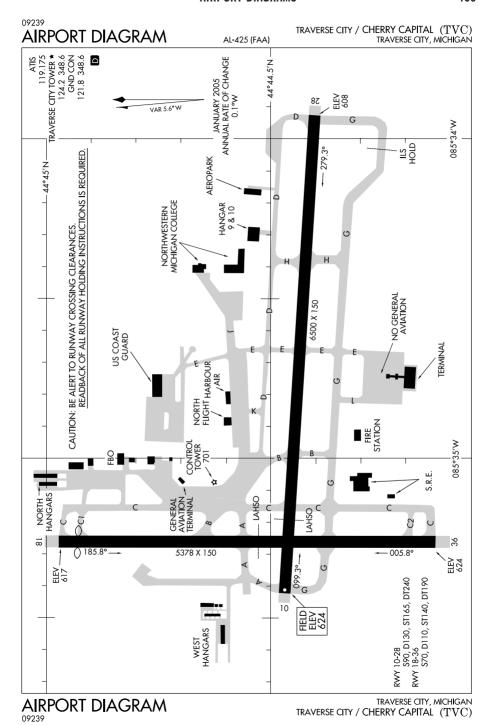


 $\begin{array}{c} \text{SPRINGFIELD, OHIO} \\ \text{SPRINGFIELD-BECKLEY MUNI } (SGH) \end{array}$

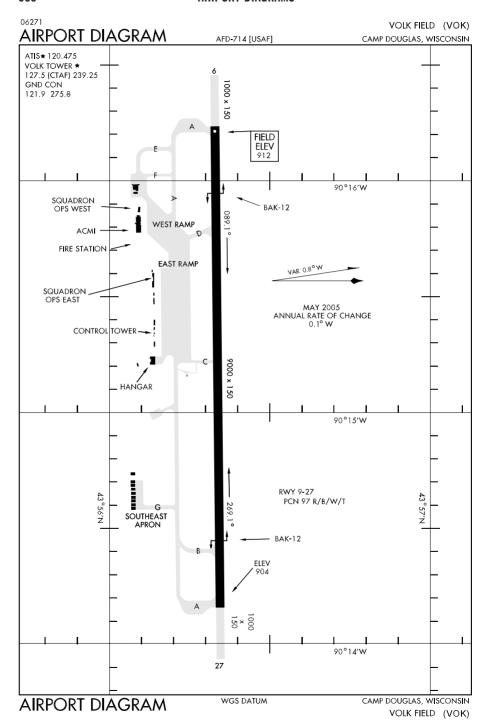




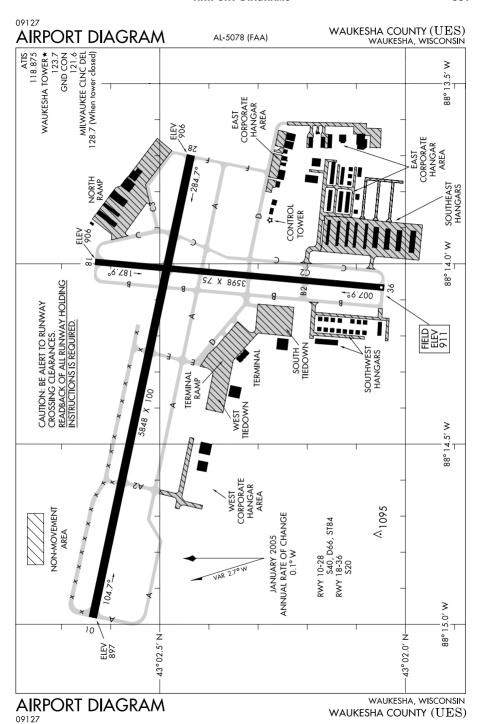
EC, 17 DEC 2009 to 11 FEB 2010



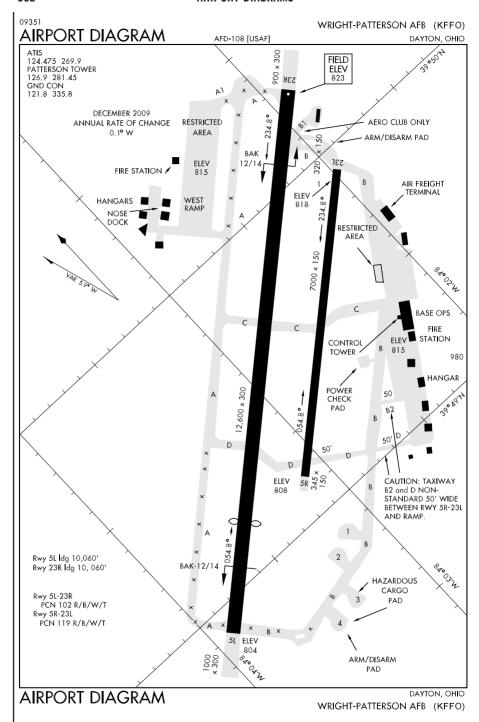
EC, 17 DEC 2009 to 11 FEB 2010



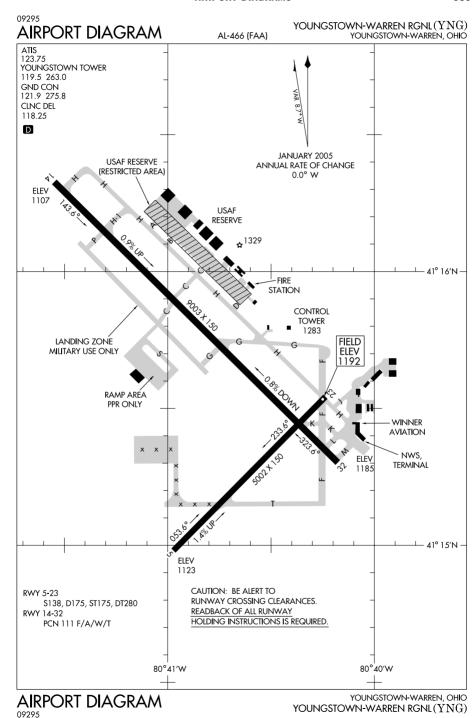
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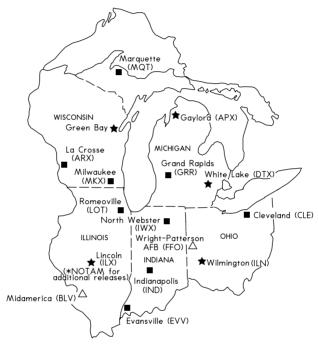
EC, 17 DEC 2009 to 11 FEB 2010



EC, 17 DEC 2009 to 11 FEB 2010



NATIONAL WEATHER SERVICE (NWS) UPPER AIR OBSERVING STATION (UAOS) AND WEATHER RADAR NETWORK



LEGEND

- △ AVIATION WEATHER SERVICE (MILITARY)
- ▲ AIR TRAFFIC CONTROL RADAR
- ★ UPPER AIR OBSERVING STATION HYDROGEN FILLED BALLOON RELEASES AROUND 1100 UTC AND 2300 UTC DAILY/RADAR
- RADAR ONLY
- UAOS-BALLOON RELEASES AROUND 1100 UTC AND 2300 UTC DAILY
- O OTHER NWS UPPER AIR STATIONS-BALLOON RELEASE TIMES ARE FLEXIBLE BUT GENERALLY AROUND SUNRISE AND/OR EARLY AFTERNOON

NOTE: FOR RELEASES LATER THAN 1130 UTC AND 2330 UTC, AND FOR SPECIAL RELEASES AT OTHER THAN THE SCHEDULED HOURS, AN AERONAUTICAL INFORMATION MESSAGE OR NOTAM* WILL BE FILED.